EPA Registration Number 79506-57 Vol 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

May 15, 2015

Sherry B. Hutcheson United Phosphorus, Inc. 630 Freedom Business Center, Ste 402 King of Prussia, PA 19406

Subject:

Label Amendment - Add Already Approved Grasses Use

Product Name: BIFENTURE EC AGRICULTURAL INSECTICIDE

EPA Registration Number: 70506-57 Application Date: December 17, 2014

Decision Number: 498901

Dear Ms. Hutcheson:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Page 2 of 2 EPA Reg. No. 70506-57 Decision No. 498901

Enclosure

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Maggie Rudick by phone at 703-347-0257, or via email at rudick.maggie@epa.gov.

Sincerely,

Kable Bo Davis, Product Manager 3 Invertebrate and Vertebrate Branch 1 Registration Division (7505P)

Office of Pesticide Programs

ACCEPTED

05/15/2015

Under the Federal Insecticide, Fungicide

and Rodenticide Act as amended, for the

70506-57

pesticide registered under

EPA Reg. No.

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision, and only for the uses covered by the certified applicator's certification.

GROUP 3A INSECTICIDE

BIFENTURE EC AGRICULTURAL INSECTICIDE

Active Ingredient:

Bv Wt.

Bifenthrin* (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-

1-propenyl)-2,2-dimethylcyclopropanecarboxylate 25.1% Other Ingredients**:74.9% TOTAL......100.0%

*Cis isomers 97% minimum, trans isomers 3% maximum.

**Contain xylene range aromatic solvents

This product contains 2 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

This label must be in the possession of the user at the time of application.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you

do not understand the label, find someone to explain it to you in detail.)

	FIRST AID
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person.
16:	 Do not give anything by mouth to an unconscious person.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
	NOTE TO PHYSICIAN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR EMERGENCY MEDICAL ASSISTANCE, CALL THE ROCKY MOUNTAIN POISON CONTROL CENTER 1-866-673-6671.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 1-800-438-6071

EPA Reg. No. 70506-57 EPA Est. No. **Net Contents:**

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals Warning

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Harmful if absorbed through skin or inhaled. Avoid breathing spray mist. Avoid contact with skin. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, Nitrile rubber, neoprene rubber or Viton
- Shoes plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, Nitrile rubber, neoprene rubber, or Viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Resistance:

Any insect/mite population may contain individual insects that may develop resistance to a specific pesticide product used in consecutive generations to control these pests. Prediction of resistance development is uncertain. Follow appropriate resistance management strategies. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or Integrated Pest Management recommendations for the specific site and pest problems in your area.

If resistance to this product develops in your area, you may find reduced control from this product or other products with a similar mode of action. If poor performance cannot be related to improper application methods or extreme weather, it is possible that a resistant strain of insect may be present. If poor control occurs and resistance is a reasonable cause, immediately consult with your local UPI representative or agricultural advisor for the best alternative method of control for your area.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- · Coveralls.
- Chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or Viton.
- · Shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store above 40°F.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Disposal: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate wter with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

[For containers smaller than 5 gallons] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¾ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

[For containers larger than 5 gallons] Triple rinse or pressure rinse as follows:

Triple rinse: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after flow begins to drip.

Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Chemigation Use Directions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Use a minimum of 0.75 inch of water per acre for LEPA irrigation. Use 1 to 2 pints per acre of non-emulsified oils when used as the diluent.

The set up and calibration of chemigation equipment are important to achieve control of target insect pests. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers or other experts for advice on the suitability of the equipment set up for optimum control of the target insect pests.

A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply Bifenture EC Agricultural Insecticide continuously for the duration of the water application. Dilute Bifenture EC Agricultural Insecticide in sufficient volume to ensure accurate application over the area to be treated. Use a minimum of 0.5 inch per acre of irrigation water for application by chemigation. No agitation is required if a suitable diluent is used. Conduct a diluent test to check that phase separation will not occur during dilution and application. If uniform dilution is not achieved during the entire period of application, undesirable residues or less than desirable control may occur.

Rotation Crop Restrictions

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days after the last application.

Tank-Mixes

Apply Bifenture EC Agricultural Insecticide with other products registered for the same crops. Read and follow all applicable directions, restrictions, and precautions on the EPA-registered labels for other tank mix partners.

Buffer Zones

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. http://www.in. nrcs.usda.gov/technical/agronomy/newconbuf.pdf.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversions

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to applications.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Instructions for Application

The following Directions for Use tables provide, in some cases, rate ranges. Use the lower application rates when insect pressure is light to moderate. Use the higher application rates when insect populations are high, when treating mites and when climate is arid.

Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetated filter strip.

In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or permanent streams that drain into coastal marshes.

INDEX TO CROPS LISTED ON THIS LABEL

Artichokes
Beans and Peas (Dry)
Beans and Peas (Succulent)
Beets, Garden (see Root Crops)
Brassica
Caneberries
Canola, Crambe, Rapeseed
Christmas Trees
Cilantro, Coriander
Citrus
Conifer Seed Orchards (AL, AR, FL, GA, LA, MS, OK, SC, TN, TX, VA only)
Cotton
Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (At Planting Use)
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Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (PRE & PPI) Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (Foliar Use)

Sweet Corn, Sweet Corn Grown for Seed (At Planting Use) Sweet Corn, Sweet Corn Grown for Seed (Foliar Use)

Cucurbits

Fruiting Vegetables

Grapes

Hops Leafy Brassica Greens (Crop Subgroup 5-B)

Lettuce, Head

Mayhaw

Okra

Peanut

Pears

Root Crops (except Sugarbeets)

Soybean

Spinach

Tobacco

Tomatoes, Tomatillos (see under Fruiting Vegetable instructions)

Tree Nuts

Tuberous and Corm Vegetables (Crop Subgroup 1-C)

Grass Forage, Fodder, and Hay Group and Grass Grown for Seed

Sod Farms

ARTICHOKES

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Artichoke Plume Moth Cribrate Weevil	0.10 lb. ai (6.4 fl. oz. product)	Begin applications when pest population reaches damaging levels and repeat as necessary to maintain control. Apply in water in a minimum of 75 gallons of spray/A by ground or in a minimum of 10 gallons/A by air.	5	Do not make applications less than 15 days apart. Do not apply more than 0.5 lb. a.i. (32.0 fl. oz. product) per acre
Brown marmorated stinkbug	0.10 lb. ai (6.4 fl. oz. product)		3	per season.

SUCCULENT PEAS AND BEANS

	SU		PEAS AND BEANS		
CROP	DECTE OCTOR	RATE			RESTRICTIONS
CKOI	PESTS CONTROLLED		APPLICATION	PHI	
Poo (Pigura and	TI D	EC/ACRE	INSTRUCTIONS	(days)	
Pea (Pisum spp.) Dwarf pea	Flea Beetle	0.025-0.10 lb.	Apply in a minimum of 10	3	Do not apply more
1	Aster Leathopper	ai	gallons/A by ground or in a		than 0.2 lb. a.i.
Edible-pod	Leafhoppers	(1.6-6.4 fl. oz.	minimum of 2 gallons/A by air.		(12.8 fl. oz.
pea		product)	When applying by air, substitute 1-		product) per acre
English pea			2 quarts of emulsified oil for 1-2		per season.
			quarts water if desired.	1	
Garden pea	Aphids	0.033-0.10 lb.			
Green pea	Armyworms	ai	For best control thorough coverage		
Snow pea	Beet	(2.1-6.4 fl. oz.	is necessary.		
Sugar snap	Fall	product)			
pea	Southern				
Pigeon pea	Yellowstriped				
Bean (Phaseolus	Beetles				
spp.):	Bean Leaf				
Broadbean	Cucumber				
(succulent)	Japanese (adult)				
Lima bean	Mexican Bean				
(green)	Sap				
Runner bean	Bugs				
Snap bean	Plant Bugs				
Wax bean	Stink Bugs				
Bean (Vigna	Tarnished Plant Bugs				
spp.):	Alfalfa Caterpillar				
Asparagus	Cloverworm				
bean	European Corn Borer				
Blackeyed	Cutworms		ļ		
pea	Western Bean Cutworm				
Chinese	Corn Earworm				
longbean	Loopers				
Cowpeas	Corn Rootworm (Adult)				
Moth bean	Thrips				
Southern pea	Webworms				
Yardlong	Pea Weevil				
bean	Pea Leaf Weevil				
Jackbean	Whitefly				
Soybean	Imported Cabbageworm				
(immature	Saltmarsh Caterpillar				
seed)	Tobacco Budworm				
Sword bean	Leafminers				
	Banks Grass Mite	0.08-0.10 lb.			
	Carmine Mite	ai			
	Lygus Spp.	(5.12-6.4 fl.			
	Twospotted Spider Mite	oz. product)			
	Brown marmorated	0.1 lb ai			
	stinkbug	(6.4 fl.			1
	Kudzu bug	0.4 II. 02		[
		product)	į		
		producti			

DRIED BEANS AND PEAS

CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	(days)	RESTRICTIONS
Dried cultivars of: Bean (Lupinus) Bean (Phaseolus) Field Bean Kidney Bean	Flea Beetle Aster Leafhopper Leafhoppers	0.025-0.10 lb ai (1.6-6.4 fl. oz. product)	Apply in a minimum of 10 gallons/A by ground or a minimum of 2 gallons/A by air. When applying by air, substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control thorough coverage is necessary.	14	Do not apply more than 0.2 lb. a.i. (12.8 fl. oz. product) per acre per season to peas. Do not apply more than 0.3 lb. a.i. (19.2 fl. oz. product) per acre per season to beans. Do not make applications less than 7 days apart.
Lima Bean (dry) Navy Bean Pinto Bean Tepary Bean Bean (Vigna) Adzuki Bean Blackeyed Pea Catjang Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Broad Bean (dry) Chickpea Guar Lablab Bean Lentil Pea (Pisum) Field Pea Pigeon Pea	Aphids Armyworms Beet Fall Southern Yellowstriped Beetles Bean Leaf Cucumber Japanese (adult) Mexican Bean Sap Bugs Plant Bugs Stink Bugs Tarnished Plant Bugs Alfalfa Caterpillar Cloverworm European Corn Borer Cutworms Western Bean Cutworm Corn Earworm Loopers Corn Rootworm (Adult) Thrips Webworms Pea Weevil Pea Leaf Weevil Whitefly Imported Cabbageworm Saltmarsh Caterpillar Tobacco Budworm Leafminers Grasshoppers	0.033-0.10 lb ai (2.1-6.4 fl. oz. product)			

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CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
	Lygus Spp. Twospotted Spider Mite	product)			
	Brown marmorated stinkbug	0.10 lb ai (6.4 fl. oz product)			

BRASSICA

			KASSICA		
CROP	PESTS	RATE	APPLICATION INSTRUCTIONS	PHI	RESTRICTIONS
	CONTROLLED	BIFENTURE		(days)	
		EC/ACRE			
Head and Stem	Aphids	0.033-0.10 lb. ai	Apply in water in a minimum of 10	7	Do not apply more
Brassica	Armyworms	(2.1-6.4 fl. oz.	gallons spray/A by ground or in a		than 0.5 lb a.i. (32 fl.
Vegetables	Corn Earworm	product)	minimum of 2 gallons/A by air.		oz. of product) per
including:	Crickets		Substitute 1-2 quarts of emulsified		acre per season.
Broccoli	Cucumber Beetles		oil for 1-2 quarts water if desired		
Brussels Sprouts	Cutworms		when applying by air.		Do not make more
Cabbage	Diamondback Moth		For best control thorough coverage		than 5 applications
Cauliflower	Flea Beetles		is necessary.		after bloom.
Cavalo Broccolo	Ground Beetles				
Chinese Broccoli	Imported				Do not make
(gai lon, white	Cabbageworm				applications less than
flowering	Leafhoppers				7 days apart.
broccoli)	Loopers				
Chinese	Saltmarsh				
Cabbage	Caterpillar				
(napa)	Stink Bugs				
Chinese Mustard	Thrips				
Cabbage (gai	Tobacco				
chov)	Budworm				
Kohlrabi	Whitefly				
	Wireworm				
	(Adults)				
	Banks Grass	0.08-0.10 lb. ai			
	Mite	(5.12-6.4 fl. oz.			
	Carmine Mite	product)			
	Lygus spp.				
	Pacific Spider				
	Mite				
	Twospotted				
	Spider Mite				
	Brown marmorated	0.10 lb ai			
	stinkbug	(6.4 fl. oz			
		product)			

CANEBERRIES
Including Bingleberries, Blackberries, Dewberries, Loganberries, Lowberries, Marionberries,
Olallieberries, Raspberries, Youngberries

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Leafrollers Orange Tortrix Root Weevils Raspberry Crown Borer Spider Mites	0.05-0.10 lb. ai (3.2-6.4 fl. oz. product) 0.10 lb. ai (6.4 fl. oz. product)	Apply in water in a minimum of 50 gallons/A by ground or in a minimum of 10 gallons/A by air. For best control thorough coverage of foliage is necessary. Make one pre-bloom application and if necessary one post-bloom application. For Crown Borer apply as a drench either post-harvest (fall) or pre-bloom (spring), using 0.1 lb ai/A in at least 200 gallons of water/A. Direct the spray at the crown of the plant. For best results, apply at higher water gallonages (up to 400 gal/A) or prior to a significant rainfall.	3	Do not apply both pre- bloom foliar and pre-bloom drench applications. Do not apply more than 0.2 lb. a.i. (12.8 fl. oz. of product) per acre per season.
Brown marmorated stinkbug	0.10 lb. ai (6.4 fl. oz. product)			

CANOLA, CRAMBE, RAPESEED					
PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS	
Aphids Armyworms Cutworms Diamondback Moth Flea Beetle Flea Hopper Grasshopper Loopers Other Lepidopterous Larvae Plant Bug Seedpod Weevil Stink Bugs Thrips Whitefly	0.033-0.04 lb. ai (2.1-2.6 fl. oz. product)	Apply in water in a minimum of 10 gallons/A by ground or in a minimum of 2 gallons/A by air. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired when applying by air. For best control thorough coverage is necessary.	35	Do not apply more than 0.08 lb. a.i. (5.12 fl. oz. product) per acre per season. Do not make applications less than 14 days apart.	

CHRISTMAS TREES

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Root Weevil Spruce Spider Mite Balsam twig aphid Balsam wooly adelgid Cinara aphid	0.06-0.2 lb ai (3.9-12.8 fl oz product)	Apply in water in a minimum of 20 gallons/A by ground, or in a minimum of 5 gallons/A by air. Although this product is not expected to be phytotoxic to Christmas trees, it is recommended that application be made to a small representative group of plants to ensure that a	Do not apply more than 3 times in a crop year. Do not apply more than 0.2 lb ai (12.8 fl oz product) per acre per treatment. Do not apply through any type of irrigation system. Do not make applications
Brown marmorated stinkbug	0.10 lb ai (6.4 fl. oz product)	particular variety is not unusually sensitive.	less than 21 days apart.

CILANTRO, CORIANDER

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Aphids Beet Armyworm Cabbage Looper Cutworms Flea Beetles Grasshoppers Leafminers Saltmarsh Caterpillar Spotted Cucumber Beetle Thrips Whitefly	0.033 - 0.10 lb. ai (2.1 - 6.4 fl. oz. product)	For best control, thorough coverage is necessary. Apply as needed. Apply in water in a minimum of 10 gallons of spray/A by ground or in a minimum of 2 gallons/A by air.	3	Do not make applications less than 7 days apart. Do not apply more than 0.50 lb. a.i. (32.0 fl. oz. of product) per acre per season.
Two Spotted Spider Mite	0.08 – 0.10 lb. ai (5.12 – 6.4 fl. oz. product)			
Brown marmorated stinkbug	0.10 lb ai (6.4 fl. oz product)			

CITRUS

PEST	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Blue Green Citrus Root Weevil (Pachnaeus opalus) Brown Leaf Notcher (Epicaerus mexicanus) Diaprepes Root Weevil (Diaprepes abbreviatus) Little Leaf Notcher (Artipus floridanus) Southern Blue Green Citrus Roon Weevil (Pachnaeus Litus)	0.25-0.50 lb ai (16-32 fl oz product)	Apply by ground in a minimum of 40 gallons of dilute spray per acre. Make uniform application to bare soil beneath the tree from the trunk to the drip line of the tree. Use a higher spray volume to insure uniformity of coverage. Pre- and postapplication irrigation may also aid in uniform coverage. Bifenture protects tree roots from root weevils by forming a barrier of pesticide through which they must burrow when the neonates fall from the tree after hatching. After application minimize disturbance of the soil beneath the trees to maintain this barrier. It is important to time applications correctly. Peak emergence of adult Diaprepes Weevil varies by citrus growing region and is also dramatically affected by environmental factors such as soil moisture. Typically, two peaks are observed for Diaprepes, first in spring and then in late summer or early fall. For Southern Blue-Green and Blue-Green Citrus Weevils and Fuller Rose Beetle, a single emergence peak in the spring is typical. Brown and Little Leaf Notchers typically have three emergence peaks in spring, summer and fall. Since emergence varies seasonally and by location, observation of adults is the most accurate way to forecast timing of applications. Numbers of adults can be estimated by trapping during spring and summer during the active early morning and later afternoon periods. Egg laying occurs for 8-10 weeks following emergence from the soil, and larval invasion of the soil begins 2-3 weeks following adult emergence. It is critical to have the Bifenture EC soil barrier in place before the neonates drop.		Do not apply through irrigation systems. Do not allow Bifenture EC to contact fruit or foliage. Do not apply more than 0.50 lb a.i. (32 fl. oz. of product) per acre per season. Do not apply by air.
Asian Cockroach	0.1-0.25 lb a (6.4-16 fl oz			

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PEST	RATE	ADDI IOATION INCESSOR		Clean Copy
	BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
(Blattella asahinae) Fireants (Solenopsis spp.)	product)	management program for citrus Root Weevils. Good cultural practices, biological control of larvae and foliar control of adults are all important. Local university extension personnel can provide the most current information to protect citrus trees. Additional information: Apply to individual citrus resets, when not in solid planted rows, using a handgun or shielded sprayer. Note that although peak emergence of Diaprepes occurs in the spring, weather conditions can cause a minor emergence of this pest in the fall. Use the highest rate if the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence in the spring. This will provide the longest residual management of Diaprepes Root Weevil. Use the lower rate if the citrus grove is in an area where weather conditions will promote more than one peak of pest emergence, and make a second application later in the season.		

CONIFER SEED ORCHARDS

For use only in the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, and Virginia

	RATE	APPLICATION INSTRUCTIONS	RESTRICTIONS
PESTS CONTROLLED	BIFENTURE EC/ACRE		
Brown marmorated stinkbug Cone Worms Seed Bugs Seed Worms	0.1-0.2 lb ai (6.4-12.8 fl oz)	Apply in water in a minimum of 100-500 gallons/A by ground. Apply in water in a minimum of 10 gallons/A or in refined vegetable oil in a minimum of 0.5 gallons/A by air. For best control thorough coverage is necessary. Begin application 7 days following peak pollen flight and repeat at 30 day intervals to a maximum of 0.6 lb ai/A per season.	Do make more than 6 applications per season, or apply more than 0.60 lb ai (38.4 fl oz product) per acre per season.

COTTON

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI	RESTRICTIONS
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellow Striped Armyworm Beet Armyworm Carmine Spider Mite Lygus spp. Pink Bollworm Twospotted Spider Mite Kudzu bug	0.02-0.10 lb. ai (1.3-6.4 fl. oz. product) 0.04-0.10 lb. ai (2.6-6.4 fl. oz. product) 0.06-0.10 lb. ai (3.8-6.4 fl. oz. product)	Apply Bifenture EC in water or refined soybean/cottonseed oil. Apply in water in a minimum of 5 gallons/A by ground or a minimum of 1 gallon/A by air. Substitute 1 quart of emulsified oil for 1 quart water if desired when applying by air. ULV Application: Apply in refined vegetable oil in a minimum of 1 quart/A with aircraft calibrated to give adequate coverage. Boll Weevil: Apply Bifenture EC every 3 to 4 days until control is acceptable. Mites and Aphids: Apply when pests first appear. Repeat as necessary to maintain control. Use the higher rates once a damaging threshold is established. Apply Bifenture EC in a minimum of 5 gallons/A of water by gournd or 1 gallon/A by air. Do not apply more than 0.5 lb. ai (32 fl oz. of product) per acre per season. Use an intensive scouting program for appropriate application timing. Repeat applications may be necessary for control. Do not graze livestock in	14	Apply no more than 0.5 Ib. a.i. (32 fl. oz of product) per acre per season in all states except California. In California, apply no more than 0.3 lb a.i. (19.2 fl. oz. of product) per acre per season. No more than 10 synthetic pyrethroid applications (of one product or combination of products, including Ambush®, Ammo®, Asana® XL, Baythroid®, Capture®, Danitol®, Karate®, Mustang®, and Scout X-TRA®) may be made to a cotton crop in one growing season. Do not graze livestock in treated areas or cut treated crops for feed. For control of brown marmorated stinkbugs, do not make more than 6 applications per season, or apply more than 38.4 fl. oz product per acre per season.

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Brown marmorated stinkbug	0.1 lb ai (6.4 fl. oz product)	Apply no more than 0.5 lb ai (32 fl. oz product) per acre per season in all states except California. In California, apply no more than 0.3 lb. ai per acre per season.		

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANTING USE)

PESTS CONTROLLED	RATE BIFENTURE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Corn Rootworm Larvae Northern Mexican Southern Western Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0.0023 – 0.0046 lb ai (0.30 fl. oz. product) per 1,000 linear feet of row 0.0023 – 0.0046 lb ai (0.15 - 0.30 fl. oz. product) per 1,000 linear feet of row	Apply as a 5 to 7 inch T-band at planting over the open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. The table below describes the amount of Bifenture EC needed per acre. Apply in water in a minimum of 3 gallons/A. When using Bifenture EC with fertilizers, check to be sure all components are compatible. For mixture with water or fertilizer, use the following procedure. Fill the spray tank approximately one-half full with water or liquid fertilizer; add the proper amount of Bifenture EC; then add the rest of the water or fertilizer. Sufficient agitation during mixing and application is required to ensure a uniform mixture Only apply to soil when there is less than 30% cover of crop residue remaining.	30 30	Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment. Do not apply more than 0.1 lb. ai (6.4 fl. oz. of product) per acre per season at planting.

Row spacings	40 in.	38 in.	36 in.	30 in.
Bifenture EC (lb. a.i. per acre)	0.060	0.064	0.069	0.080
Bifenture EC (formulated product, ounces per acre)	3.9	4.1	4.4	5.12

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED Pre-Plant Incorporated (PPI) and Pre-Emergence (PRE)

	Pre-Plant Incorporated (FFI) and Tre-Emergence (FFI)					
PESTS	RATE BIFENTURE	APPLICATION INSTRUCTIONS				
CONTROLLED	EC	TO I to the supported doubt of				
Armyworm spp.	0.047 to 0.062 lb.	Incorporate Bifenture EC close to the expected depth of				
Black Cutworm	a.i./A (3-4 fl. oz/A	the seed, but no deeper than 3 inches.				
Seedcorn	product) Pre-Plant	PPI: Use the 3-4 oz./A rate only. Apply alone or with PPI				
Maggot	Incorporated (PPI)	herbicides as a tank mix.				
Stalkborer						
White Grub		PRE: Use the 2.56 oz/A rate when tank-mixing and				
Wireworm		applying with PRE herbicides.				
Armyworm spp.	0.040 lb. a.i./A (2.56					
Black Cutworm	fl. oz./A product) Pre-					
Stalkborer	emergence (PRE)					

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED

(FOLIAR USF)

5		(FOLIAR USE)		
PESTS	RATE	APPLICATION INSTRUCTIONS	PHI	RESTRICTIONS
CONTROLLED	BIFENTURE		(days)	
A I- :-I-	EC/ACRE		` , ,	
Aphids	0.033-0.10 lb ai		30	Do not graze
Army Cutworm	(2.1-6.4 fl. oz.	gallons/A by ground or in a minimum of 2-5		livestock in
Beet Armyworm	product)	gallons/A by air. For heavy infestations.		treated areas or
Cereal Leaf Beetle		use 5 gallons of finished spray per acre by		cut treated crops
Chinch Bug		aircraft. Substitute 1-2 quarts of		for feed within 30
Common Stalk Borer		emulsified oil for 1-2 quarts water if		days of the last
Corn Earworm		desired.		application.
Corn Rootworm		For best control thorough coverage is		-1
Adults		necessary.		Do not apply by
Cucumber Beetle				ultra low volume
Adults		Ear-Attacking Pests: Apply Bifenture EC		(ULV) application
Cutworm Species		just before silking.		on corn.
European Corn Borer				5.1 55111.
Fall Armyworm		Southwestern Corn Borer, European		If heavy rainfall is
Flea Beetle		Corn Borer: Apply at or shortly before		imminent, do not
Grasshoppers		egg hatch.		make aerial or
Greenbug				ground
Japanese Beetle		Other Insect Pests: Apply when insects		applications to
Adults		first appear. Repeat as needed.		corn.
Leafhoppers				00111,
Sap Beetle		Banks Grass Mites: Apply when colonies		For Mite Control
Southern Armyworm		first form before leaf damage or		in Texas, New
Southern Corn Leaf		discoloration and prior to movement above	1	Mexico,
Beetle		the bottom third of the plant.		Oklahoma, and
Southwestern Corn				Arizona:
Borer		Twospotted Spider Mite and Carmine		Do not apply
Stinkbugs		Mite: Apply when colonies first form		more than 0.3 lb.
Tarnished Plant Bug		before leaf damage or discoloration and		a.i. (19.2 fl. oz of
Thrips		before wide-spread mite movement		product) per acre
True Armyworm or		throughout the canopy. Use the higher		per season
Armyworm Species		rates if heavier insect pressure is noted		including PRE &
Webworms		and corn is under heat or drought stress.		PPI, at plant plus
Western Bean		Tank mixtures with dimethoate at 0.5 lb.		foliar
Cutworm		a.i. per acre are effective under these	1	applications.
Yellowstriped		conditions.		applications.
Armyworm				
		Mite Control in Texas, New Mexico,		
		Oklahoma, and Arizona: Apply in water		
		in a minimum of 10 gallons/A ground or in		
		а		
		minimum of 5 gallons/A by air.		
		Repeat applications as necessary to		
		maintain control.		
Banks Grass Mite	0.08-0.10 lb. ai			
Carmine Mite	(5.12-6.4 fl. oz.			
Twospotted Spider	product)]	
Mite	j			
Brown marmorated	0.1 lb ai		1	Oo not apply

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
stinkbug	(6.4 fl. oz product)			more than 0.3 lb ai (19.2 fl. oz product) per acre per season, including all methods of application. Do not apply within 30 days of harvest. Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.

SWEET CORN SWEET CORN GROWN FOR SEED (AT PLANTING USE)

PESTS	RATE	(AT PLANTING USE) APPLICATION INSTRUCTIONS	PHI	DESTRICTIONS
CONTROLLED	BIFENTURE EC		(days)	RESTRICTIONS
Corn Rootworm Larvae Northern Mexican Southern Western	0.0046 lb. ai (0.30 fl.oz. product) per 1,000 linear feet of row	Apply at planting over the open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. The table below describes the amount of Bifenture EC needed per acre. Apply in a minimum of 3 gallons of finished spray per acre. When using Bifenthrin EC with fertilizers, check to be sure all components	30	Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment. Do not apply more than 0.1 lb. ai (6.4 fl. oz. of product) per acre per
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0.0023 – 0.0046 lb. ai (0.15 - 0.30 fl.oz. product) per 1,000 linear feet of row	are compatible. For mixture with water or fertilizer, use the following procedure. Fill the spray tank approximately one-half full with water or liquid fertilizer; add the proper amount of Bifenture EC; then add the rest of the water or fertilizer. Sufficient agitation during mixing and application is required to ensure a uniform mixture. Only apply to soil where there is less than 30% cover of crop residue remaining.		season.

Row Spacings	40 in.	38 in.	36 in.	30 in.
Bifenture EC (lb. a.i. per acre)	0.060	0.064	0.069	0.080
Bifenture EC (formulated product, ounces per acre)	3.9	4.1	4.4	5.12

SWEET CORN SWEET CORN GROWN FOR SEED (FOLIAR USE)

(FOLIAR USE)					
PESTS	RATE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS	
CONTROLLED			(aayo,		
Aphids Army Cutworm Aster Leafhopper Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm Adults Corn Silkfly Cucumber Beetle Adults Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adults Leafhoppers Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tarnished Plant Bug Thrips True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm Banks Grass Mite Carmine Mite Pacific Spider Mite		Apply in water in a minimum of 10 gallons/A by ground or in a minimum of 2 gallons/A by air. For heavy infestations by aircraft, use 5 gallons of finished spray per acre. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control, thorough coverage is necessary. Ear-Attacking Pests: Apply Bifenture EC just before silking. Southwestern Corn Borer, European Corn Borer: Apply twice, with the first application at or shortly before egg hatch. Other Insect Pests: Apply when insects first appear. Repeat as needed. Mite Control: Apply when colonies first form before leaf damage or discoloration and prior to widespread movement throughout the canopy. For Banks Grass Mite, apply prior to movement above the bottom third of the plant. Use the higher rates if heavier insect pressure is noted and corn is under heat or drought stress. Repeat applications as necessary.	1	Do not apply more than 0.2 lb. a.i. (12.8 fl. oz. product) per acre per season. Do not graze livestock in treated areas or cut treated crops for feed within 1 day of the last application. Do not apply by ultra low volume (ULV) on corn. If heavy rainfall is imminent, do not make aerial or ground applications to corn.	

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PESTS	RATE	ADDI ICATION INCTRUCTIONS		Clean Copy
CONTROLLED	BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Twospotted Spider Mite				
Brown marmorated stinkbug	0.10 lb ai (6.4 fl. oz product)			Do not apply more than 0.2 lb ai (12.8 fl. oz product) per acre per season. Do not graze livestock in treated ares or cut treated crops for feed within 1 day of the last application.

CUCURBITS

CDOD	PESTS	CUCURB RATE	APPLICATION	PHI	RESTRICTIONS
CROP	CONTROLLED	BIFENTURE	INSTRUCTIONS	(days)	
	CONTROLLED	EC/ACRE	, , , , , , , , , , , , , , , , , , ,	()-/	
Chayata (fruit)	Aphids	0.04-0.10 lb. ai	Apply in water in a	3	Do not apply
Chayote (fruit) Chinese	Armyworms	(2.6-6.4 fl. oz.	minimum of 20		more than 0.3
	Cabbage Looper	product)	gallons/A by ground		lb. ai (19.2 fl. oz.
waxgourd	Corn Earworm	producty	or in a minimum of 5		product) per
(Chinese	Cucumber		gallons/A by air.		acre per
preserving			Substitute 1-2 quarts		season.
melon)	Beetles		of emulsified oil for		-
Citron melon	Cutworm		1-2 quarts water if		Do not apply
Cucumber	Grasshopper		desired.		more than twice
Gherkin	Leafhoppers		For best control		after bloom.
Gourd, edible	Melonworm		thorough coverage		Do not make
(includes	Pickleworm		is necessary.		applications less
hyloan,	Plant Bug		is necessary.		than 7 days
cucuzza),	Rindworm				apart.
(Luffa	Squash Bugs				Lapart.
spp.) (includes	Squash Vine				
hechima,	Borer Chink Buga				
Chinese	Stink Bugs				
okra),	Tobacco				
(Momordica	Budworm				
spp.) (includes					
balsam apple,					
balsam pear,					
bitter					
melon,					
Chinese	D. L. O Mite	0.08-0.10 lb. ai			
cucumber)	Banks Grass Mite	i			
Muskmelon	Carmine Mite	(5.12-6.4 fl. oz.			
(hybrids	Lygus spp	product)			
and/or	Twospotted				
cultivars	Spider				
of Cucumis	Mite				
melo)	Whitefly				
(includes	•				
true					
cantaloupe,					
Cantaloupe,					
casaba,					
crenshaw					
melon,					
golden,					
pershaw					
melon,					
honeydew					
melon,					
honey balls,					
mango					
melon,					
Persian		Ì			
melon,					
pineapple		Daga 20			1

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CROP	DECTO			Clear	
	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICT
melon, Santa					
Claus melon,					
and					
snake melon)					j
Pumpkin					
(Cucurbita spp.)					
Squash, summer					
(includes					
crookneck					
squash,					
scallop					
squash,					
straightneck					
squash,					
vegetable				}	
marrow,					
zucchini)					
Squash, winter					
(includes					
butternut					
squash,					
calabaza,					
hubbard					
squash				1	
(C. mixte; C.				1	
pepo),		to a			
includes acorn					
squash,					
spaghetti					
squash)					
Watermelon					
(includes					
hybrids and					
or varieties of					
Citrullis					
spp.)					
	Brown	0.10 lb ai			
	marmorated	(6.4 fl. oz			
f	stinkbug	product)			

FRUITING VEGETABLES

Eggplant, bell and non-bell pepper, pepino, groundcherry, tomato, tomatillo

CROP	PESTS CONTROLLED	RATE BIFENTURE	APPLICATION	PHI	RESTRICTIONS
0.10.		EC/ACRE	INSTRUCTIONS	(days)	
Eggplant Pepper (bell and non- bell) Pepino Groundcherry	Armyworms (including: Beet Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm) Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafhoppers Leafminers Loopers Pepper Weevil Plant Bug Stink Bug Thrips Tomato Pinworm Tomato Hornworm Vegetable Leafminer Whitefly Banks Grass Mite Broad Mite Carmine Mite Lygus spp. Pacific Spider Mite Twospotted Spider Mite	0.033-0.10 lb. ai (2.1-6.4 fl. oz. product) 0.08-0.10 lb. ai (5.12-6.4 fl. oz. product)	Apply in at least 2 gallons finished spray per acre by air or at least 10 gallons per acre by ground. When application is made by air, 1-2 qts emulsified oil may replace 1-2 qts of water in the finished spray. For best control thorough coverage is necessary.	7	Do not make applications less than 7 days apart. Do not apply more than 0.2 lb. ai (12.8 fl. oz. product) per acre per season.
	Brown marmorated				

Tomato Tomatillo	Aphids Armyworms (including:	RATE BIFENTURE EC/ACRE	APPLICATION	PHI	RESTRICTIONS
	,				
Tomatillo	,	0.033-0.08 lb. ai	INSTRUCTIONS	(days)	
	1 Anni Amonii 2 Chemana	(2.1-5.2 fl. oz.	Apply in at least 3	1	Do not make
	Beet	product)	gallons finished spray/A by air or at least 15		applications less
	Armyworm, Fall	product)	gallons/A by ground.		than 7 days apart.
	Armyworm, Southern		For best control		D
	Yellowstriped		thorough coverage is		Do not make more
	Armyworm)		necessary.		than 4
	Bean Leaf Beetle		noocosary.		applications per
	Cabbageworm				season.
	Carmine Mite				
	Cloverworm				
	Corn Earworm				
	Corn Rootworm		1		
	Cucumber Beetle		1		
	Cutworms]		
	Diamondback Moth				
	European Corn Borer		f	j	
	Flea Beetle			1	
	Fleahopper				
	Grasshopper				
	Japanese Beetle (adult)				
	Leafhoppers			ŀ	
	Loopers				i
	Lygus spp.		f		
	Melonworm				
	Pea Weevil				
	Pea Leaf Weevil				
	Pickleworm				
	Plant Bug		İ	1	
	Rindworm			İ	
	Salt Marsh Caterpillar				
	Sap Beetle				
	Seedpod Weevil				
	Squash Bugs				
	Stink Bug spp.				
	Tobacco Budworm				
	Tarnished Plant Bug				
	Thrips				
	Whitefly				
	Two Spotted Spider Mite	0.08-0.10 lb ai			
	,p	(5.12-6.4 fl. oz			
		product)			
	Brown marmorated	0.08 lb ai			
	stinkbug	(5.2 fl. oz product)			

GRAPES

PESTS CONTROLLED	RATE BIFENTURE ECACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Cutworms Eastern Grape Lady Beetle (Scymnus) Leafhopper Grape Berry Moth Japanese Beetle (adult) Variegated Leafhopper Western Grape Leafhopper Black Vine Weevil Glassywinged Sharpshooter Twospotted Spider Mite Brown marmorated stinkbug	0.05-0.10 lb. ai (3.2 - 6.4 fl. oz. product) 0.10 lb. ai (6.4 fl. oz. product)	Apply in a minimum of 25 gallons/A by ground or in a minimum of 10 gallons/A by air. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control thorough coverage is necessary. Use the higher rate when insect pressure is moderate to severe.	30	Do not apply more than 0.10 lb. ai (6.4 fl. oz. of product) per acre per season.

HOPS

PESTS	T	HOPS		
CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Aphids Armyworms Cutworms Leafrollers Loopers	0.06-0.1 lb. ai (3.8-6.4 fl. oz. product)	By ground: Full coverage is necessary for best results. For early season, use 100-150 gallons of spray per acre. For late season, use 200-250 gallons of spray per acre. Root Weevil: direct the spray to the base of the plant. Spray 3 feet up the vine and the soil surface 1.5 to 2 feet around the plant. Twospotted spider mites, for late season control: Apply at least 6.4 fl. oz. (0.1 lb. ai) per application in a minimum of 10 gallons per acre by air.	14	Do not apply more than 0.1 lb. ai (6.4 fl. oz. of product) per acre per application. Do not apply more than 0.3 lb. ai (19.2 fl. oz of product) per acre per season. Do not make applications less than 21 days apart.
Root Weevils	0.05-0.1 lb. ai (3.2-6.4 fl. oz. product)			Do not apply by ultra low volume (ULV) application to
Twospotted Spider Mite	0.1 lb. ai (6.4 fl. oz. product)			hops.
Brown marmorated stinkbug	0.1 lb ai (6.4 fl. oz product)			Do not apply more than 0.1 lb ai (6.4 fl oz product) per acre per application. Do not apply more than 0.3 lb ai (19.2 fl. oz product) per acre per season. Do not make applications less than 21 days apart.

LEAFY BRASSICAS Crop Subgroup 5-B

CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Broccoli raab Chinese cabbage (bok choy) Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens	Aphids Armyworms Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Grasshoppers Ground Beetles Imported Cabbageworm Japanese Beetles (adults) Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm Whitefly Wireworm (adults) Banks Grass Mite Carmine Mite Lygus spp. Pacific Spider Mite Twospotted Spider Mite Brown marmorated stinkbug	0.033-0.10 lb. ai (2.1-6.4 fl. oz. product) 0.08 - 0.10 lb. ai (5.12 - 6.4 fl. oz. product) 0.1 lb ai (6.4 fl. oz product)	Apply in water in a minimum of 10 gallons/A by ground or in a minimum of 2 gallons/A by air. For best control thorough coverage of foliage is necessary. When applied by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.	7	Do not make applications less than 7 days apart. Do not apply more than 0.4 lb. ai (25.6 fl. oz. of product) per acre per season.

LETTUCE, HEAD

PESTS	RATE BIFENTURE	LETTUCE, HEAD	Dilli	
CONTROLLED	EC/ACRE	APPLICATION INSTRUCTIONS	PHI	RESTRICTIONS
Aphids Armyworms Cabbage Maggot Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Grasshoppers Imported Cabbageworm Leafhoppers Loopers Salt Marsh Caterpillar Stink Bug spp. Thrips Tobacco Budworm Whitefly Carmine Mite	0.033-0.10 lb. ai (2.1-6.4 fl. oz. product)	Apply in water in a minimum of 15 gallons/A by ground or in 5 gallons/A by air. For air application, substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control thorough coverage is necessary.	(days) 7	Do not make applications less than 7 days apart. Do not apply more than 0.5 lb. ai (32 fl. oz. of product) per acre per season.
Lygus, spp.	0.08-0.10 lb. ai (5.12-6.4 fl. oz.			
Twospotted Spider Mite	product)			
Brown	0.1 lb ai			
marmorated	(6.4 fl. oz product)			
stinkbug				

MAYHAW

Not for this use in California unless accompanied by supplemental labeling.

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Plum Curculio	0.08 – 0.10 lb. ai (5.12 – 6.4 fl. oz. product)	Apply in at least 28 gallons per acre.	30	Do not apply more than 0.2 lb. ai (12.8 fl. oz of product) per
Brown marmorated stinkbug	0.1 lb ai (6.4 fl. oz product)			acre per season. Do not apply more than once every 7 days.

OKRA

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Aphids Armyworms Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Japanese Beetles (adult) Leafminers Loopers Stink Bugs Thrips Whitefly	0.033 - 0.10 lb. ai (2.1 - 6.4 fl. oz. product)	For best control, thorough coverage is necessary. Apply as needed. Apply in water in a minimum of 10 gallons of spray/A by ground or in a minimum of 2 gallons/A by air.	7	Do not make applications less than 7 days apart. Do not apply more than 0.20 lb. ai (12.8 fl. oz of product) per acre per season.
Broad Mite Carmine Mite Lygus spp. Two Spotted Spider Mite Brown marmorated stinkbug	0.08 – 0.10 lb. ai (5.12 – 6.4 fl. oz. product) 0.1 lb ai (6.4 fl. oz product)			

PEANUT

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Beet Armyworm Corn Earworm Cutworm spp. Fall Armyworm Grasshoppers Green Cloverworm Leafhoppers Lesser Cornstalk Borer Loopers Red-necked Peanut Worm Southern Armyworm Southern corn Rootworm Stink Bugs Three-cornered Alfalfa Hopper Velvetbean Caterpillar Yellowstriped Armyworm Aphids Spider Mites Thrips Whitefly Brown marmorated stinkbug	0.033 - 0.10 lb. ai (2.1 - 6.4 fl. oz. product) 0.08 - 0.10 lb. ai (5.12 - 6.4 fl. oz. product) 0.10 lb (6.4 fl.oz product)	Apply in at least 10 gallons of water.	14	Do not feed green immature plants and peanut hay to livestock. Do not apply more than 0.5 lb. ai (32 fl. oz of product) per season. Do not apply more than once every 14 days.

PEARS

RATE BIFENTURE EC/ACRE 0.04-0.2 lb. ai (2.6 - 12.8 fl. oz. product)	By ground: Apply as a dilute (minimum of 200 gallons of finished	PHI (days)	Do not apply
EC/ACRE 0.04-0.2 lb. ai (2.6 - 12.8 fl. oz.	By ground: Apply as a dilute (minimum of 200 gallons of finished		Do not apply
0.04-0.2 lb. ai (2.6 - 12.8 fl. oz.	By ground: Apply as a dilute (minimum of 200 gallons of finished	14	Do not apply
(2.6 - 12.8 fl. oz.	By ground: Apply as a dilute (minimum of 200 gallons of finished	14	Do not apply
	spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray. For best control thorough coverage is necessary. By air: Apply in a minimum of 10 gallons per acre. Apply as necessary to maintain control and repeat applications at 30 day intervals.		more than 0.5 lb. ai (32 fl. oz of product) acre per season with no more than 0.45 lb. ai (28.8 fl. oz of product) per acre applied after petal fall. Do not graze livestock in treated orchards or cut treated cover crops for feed.
0.06-0.2 lb. ai (3.8 -12.8 fl. oz. product) 0.08-0.2 lb. ai (5.12 - 12.8 fl. oz. product) 0.08 lb ai (5.12 fl oz			
	(3.8 -12.8 fl. oz. product) 0.08-0.2 lb. ai 5.12 - 12.8 fl. oz. product) 0.08 lb ai	By air: Apply in a minimum of 10 gallons per acre. Apply as necessary to maintain control and repeat applications at 30 day intervals. 0.06-0.2 lb. ai (3.8 -12.8 fl. oz. product) 0.08-0.2 lb. ai 5.12 - 12.8 fl. oz. product) 0.08 lb ai (5.12 fl oz	By air: Apply in a minimum of 10 gallons per acre. Apply as necessary to maintain control and repeat applications at 30 day intervals. 0.06-0.2 lb. ai (3.8 -12.8 fl. oz. product) 0.08-0.2 lb. ai 5.12 - 12.8 fl. oz. product) 0.08 lb ai (5.12 fl oz

ROOT CROPS (except Sugarbeets)

CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Edible burdock, Carrot, Celeriac, Chervil, Chicory, Ginseng, Horseradish, Parsley, Parsnip, Radish, Oriental radish, Rutabaga, Salsify, Black salsify, Spanish salsify, Skirret, Turnip	Aphids Beet Armyworm Celery Leaf Tier Corn Earworm Cross-striped Cabbageworm Cutworms Diamondback Moth European Corn Borer Fall Armyworm Fire Ants Flea Beetles Green Cloverworm Hornworms Imported Cabbageworm Loopers Southern Armyworm Spider Mites Tobacco Budworm Velvetbean Caterpillar Whitefly Yellowstriped Armyworm Brown marmorated stinkbug	0.08 - 0.10 lb. ai (5.12 - 6.4 fl. oz. product) 0.1 lb ai (6.4 fl. oz product)	Apply in at least 25 gallons per acre by ground.	21	Do not apply more than once every 7 days. Do not apply more than 0.5 lb. ai (32 fl. oz of product) per acre per season.
Garden Beets	Aphids Fire Ants Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	0.08-0.10 lb ai (5.12-6.4 fl. oz. product)	Make foliar applications in a minimum of 25 gal/A.	1	Do not apply more than 0.4 lb ai (25.6 fl. oz of product) per acre per season. Do not apply more often than every 7 days.

SOYBEAN

	RATE		PHI	RESTRICTIONS
PESTS	BIFENTURE	APPLICATION INSTRUCTIONS	(days)	
CONTROLLED	EC/ACRE		- 10	Do not apply
Alfalfa Caterpillar	0.033 - 0.10	Make foliar applications in at least 10	18	Do not apply more than once
Aphids	lb. ai	gallons per acre.		every 30 days.
Aster Leafhopper	(2.1 – 6.4 fl.			Do not apply
Bean Leaf Beetle	oz. product)			more than 0.3
Beet Armyworm*		um utumatat maniatanan in		lb. ai (19.2 fl. oz
Cloverworm		*Because pyrethroid resistance is		of product) per
Corn Earworm		common for Beet Armyworm and		acre per
Corn Rootworm		Tobacco Budworm, consult your local or state agricultural authorities to find out if		season.
Adult		resistant pest populations are in the		
Cucumber Beetles		treatment area. If so, refer to the		
Cutworms		resistance information in the Directions		
European Corn		for Use section of this label.		
Borer		101 030 300001 01 4110 14101.		
Fall Armyworm Flea Beetle				
Grasshoppers				
Imported				
Cabbageworm				
Japanese Beetle				
Adult				
Pea Leaf Weevil				
Pea Weevil				
Plant Bug				
Saltmarsh				
Caterpillar				
Sap Beetle				
Southern				
Armyworm				
Stink Bugs				
Tarnished Plant				
Bug				1
Thrips				
Tobacco Budworm*				
Webworms Western Bean				
Cutworm				
Whitefly				
Yellowstriped				
Armyworm				
Soybean Aphid				
Lygus spp.	0.08 - 0.10 lb.			
Whitefly	ai			
Two-spotted Spider	(5.12 – 6.4 fl.			
Mite	oz. product)			
Kudzu bug	0.1 lb ai			
Brown marmorated	(6.4 fl. oz.			
stinkbug	product)			

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SPINACH

RATE IFENTURE EC/ACRE	APPLICATION INSTRUCTIONS		RESTRICTIONS
		PHI	
33 to 0.10 lb. ai 1-6.4 fl. oz. product)	Apply in water at 10-50 gallons/A by ground or 5-50 gallons /A by air. Whiteflies: make up to 4 foliar treatments of Bifenture EC by ground or air at rates of up to 6.4 fl. oz (0.1 lb. ai) per acre Repeat applications at 7 day intervals. Fire ants: make up to 4 applications of Bifenture EC to the soil at planting or as a foliar treatment by ground or air at rates of up to 6.4 fl. oz. (0.1 lb. ai) per acre. Repeat application at 7 day intervals.	(days) 40	Do not make applications less than 7 days apart. Do not apply more than 0.4 lb. a.i. (25.6 fl. oz of product) per acre per season.
3-0.10 lb. ai 12 to 6.4 fl. . product) .1 lb ai 6.4 fl. oz			
1.2	2 to 6.4 fl. product)	2 to 6.4 fl. product) 1 lb ai 4 fl. oz	2 to 6.4 fl. product) 1 lb ai 4 fl. oz

TOBACCO

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Armyworm spp. Cutworm spp Mole Crickets Stalkborers Tobacco Flea Beetle (larvae) White Grubs Wireworms	0.0625-0.10 lb ai (4.0-6.4 fl. oz. product)	Pre-transplant soil application: Apply specified rate in a minimum of 10 gal/A. To control below-ground pests, use equipment which will incorporate the application into the top 4" of soil. At-transplant water treatment application: Apply specified rate in a water treatment volume of 10-200 gal/A.	Do not make more than 2 foliar applications per season. Do not apply later than layby. Do not apply more than 0.2 lb ai (12.8 fl. oz of product) per acre per season.
Aphid spp. Armyworm spp. Chinch Bugs Cucumber Beetles Flea Beetle (Adults) Stink Bugs Japanese Beetles Grasshoppers Cutworm spp. Tarnished Plant Bugs Green Bugs Saltmarsh Caterpillar Thrips Tobacco Budworm* Tobacco Hornworm Whiteflies	0.04-0.10 lb ai (2.56-6.4 fl. oz. product)	Foliar application: Apply specified rate in a minimum of 10 gal/A up to and including layby. May be tank mixed with other herbicides registered for tobacco use. *See Resistance section on this label for more information.	
Brown marmorated stinkbug Lygus spp. Spider Mites	0.1 lb ai (6.4 fl. oz. product)		

TREE NUT CROPS

Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Pistachio, Walnut (black and English)

	RATE			· · · · · · · · · · · · · · · · · · ·
PESTS CONTROLLED	BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	RESTRICTIONS
Black Pecan Aphid Codling Moth Filbert Worm Hickory Shuckworm Leaffooted Bugs Navel Orangeworm Oblique Banded Leafroller Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Plant Bugs Stink Bugs Walnut Aphid Yellow Pecan Aphid European Red Mite Spider Mites Fire Ants Walnut Husk Fly	0.05 – 0.20 lb ai (3.2 – 12.8 fl. oz. product) 0.08 – 0.20 lb ai (5.1 – 12.8 fl. oz. product) 0.1 – 0.2 lb ai (6.4 – 12.8 fl. oz. product)	Ground Application: Apply as a dilute (minimum of 200 gallons per acre) or concentrate (minimum of 50 gallons per acre) spray in sufficient water to provide thorough coverage. Air Application: Apply in a minimum of 10 gallons of finished spray per acre. Minimum Spray Intervals: Apply Bifenture EC as needed to maintain control.	Pecans: 21 Others: 7	Do not apply at intervals sooner than 15 days. Do not apply more than 0.20 lb ai (12.8 fl. oz. product) per acre per application. Do not apply more than 0.50 lb ai (32 fl. oz of product) per acre per season. Do not graze livestock in treated orchards or cut treated cover crops for feed.

		RATE	VEGETABLES (Crop Subgroup	PHI	RESTRICTIONS
CROP	PESTS CONTROLLED	BIFENTURE	APPLICATION INSTRUCTIONS	(days)	
Potato Gweet Potato Arracacha Arrowroot Artichoke Chinese and Jerusalem) Edible Canna Cassava (bitter and sweet) Chayote (root) Chufa Dasheen Ginger Leren Tanier Turmeric Yam Bean True Yam	Banded Cucumber Beetle Black Flea Beetle Corn Wireworm Cucumber Beetle Japanese Beetle Grubs June Beetle Rootworms Southern Potato Wireworm Sugarcane Beetle Sweetpotato Flea Beetle Sweetpotato Weevil Tobacco Wireworm Whitefringed Beetle White Grub Kudzu bug	At-Plant 0.30 lb. ai (19.2 fl. oz. product) At Cultivation or Lay-By 0.05 – 0.15 lb. ai (3.2 – 9.6 fl. oz. product) Foliar 0.033 - 0.10 lb. ai (2.1 – 6.4 fl. oz. product) 0.1 lb. ai (6.4 fl. oz.)	Bifenture EC may be applied at planting time for the control of wireworms, rootworms and white grubs. Apply at the rate of 0.3 lb ai/A as a soil incorporated broadcast, directed bed spray or T-band spray into the planting furrow. Bifenture EC may be applied as a cultivation or lay-by treatment for the control of wireworms, rootworms, and white grubs. Apply to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply as a banded spray over the row at a rate of 0.05 to 0.15 lb ai/A (3.2 to 9.5 fl. oz. product) in 10 gallons of spray per acre. Bifenture EC may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), white fringed beetles, and May/June beetles (white grubs). Apply at a rate of 0.033 to 0.1 lb ai/A (2.1 to 6.4 fl. oz. product) in 10 gallons of spray by ground or 3 gallons of spray by air.	21	Do not make more than 2 foliar applications per season. Do not make applications less than 21 days apart. Do not apply more than 0.5 lb. ai (32 fl. oz of product) per acre per season, including soil application.
	Brown marmorated stinkbug	0.1 lb ai (6.4 fl. oz product)			

For use on Grass Forage, Fodder, and Hay Group and Grass Grown for Seed, Pasture and Rangeland

(including: bahiagrass, barnyardgrass, bentgrass, Bermudagrass, Kentucky bluegrass, big bluestem, smooth bromegrass, buffalograss, reed canarygrass, centipedegrass, crabgrass, cupgrass, dallisgrass, sand dropseed, Kentucky fescue, meadow foxtail, eastern gramagrass, side-oats grama, guinea grass, Indian grass, Johnsongrass, lovegrass, napiergrass, oatgrass, orchardgrass, pangolagraass, paspalum, redtop, Italian ryegrass, St. Augustine grass, sprangletop, squirreltailgrass, stargrass, switchgrass, timothy, crested wheatgrass, wildrye grass and zoysis grass. Also included are sudangrass and sorghum forages and their hybrids).

NOTE: Use on grasses is limited to the States of Idaho, Oregon, and Washington.

Alfalfa Looper Alfalfa Weevil Blue Alfalfa Aphid' Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Green Peach Aphid' Hornworms Meadow Spittlebug Pea Aphid' Potato Leafhopper Spotted Alfalfa Aphid' Threecornered Alfalfa Hopper Velvetbean Caterpillar Webworms Armyworm, southern Armyworm, southern Armyworm, yellowstriped Ant Cereal Leaf Beetle Chinch Bug Grass Mealybug Grasshoppers (0.1 lb ai/A) In the sufficient volume of water to ensure thorough coverage of foliage. Use higher specified rate for increased pest pressure or for increased residual pest control. Do not exceed maximum allowable rate. Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. Higher volumes of finished spray may improve insect control under higher temperatures, when foliage is dense and/or when insect pressure is high. Applications may be made up to 30 days prior to harvest for	PESTS CONTROLLED	RESTRICTIONS
Range Caterpillar Stink Bugs Armyworm, fall Black Grass Bug Hunting Bill Bug Plant Bug spp. I orage and hay. I Aphid control may be variable depending on species present and host-plant relationships.	Alfalfa Weevil Blue Alfalfa Aphid¹ Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Green Peach Aphid¹ Hornworms Meadow Spittlebug Pea Aphid¹ Potato Leafhopper Spotted Alfalfa Aphid¹ Threecornered Alfalfa Hopper Velvetbean Caterpillar Webworms Armyworm, southern Armyworm, true Armyworm, yellowstriped Ant Cereal Leaf Beetle Chinch Bug Cricket Grass Mealybug Grasshoppers Range Caterpillar Stink Bugs Armyworm, fall Black Grass Bug Hunting Bill Bug	Do not make applications less than

SOD FARMS

Not for use in California unless accompanied by supplemental labeling.

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, DO make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

renewed insect activity, b	ut not sooner than two weeks a	alter the mot application.
PEST	RATE BIFENTURE EC/ACRE	RATE BIFENTURE EC FL OZ/1000 SQ FT.
Armyworms ¹ Cutworms ¹ Sod Webworm ¹	0.03-0.05 lb ai (2.2-3.5 fl. oz. product)	0.05-0.08 fl. oz. product
Annual Bluegrass Weevil (Hyperodes) (Adult) ² Banks Grass Mite ⁶ Billbugs (Adult) ³ Black Trufgrass Ataenius (Adult) ⁴ Crickets Earwigs Fleas (Adult) Grasshoppers Mealybugs Mites ⁶	0.05-0.11 lb ai (3.5-7.0 fl. oz. product)	0.08-0.16 fl. oz. product
Ants Chinch Bugs ⁵ Fleas (Larvae) ⁷ Imported Fire Ants ⁸ Japanese Beetle (Adult) Mole Cricket (Adult) ⁹ Mole Cricket (Nymph) ¹⁰ Ticks ¹¹	0.11-0.21 lb ai (7.0-14.0 fl .oz. product)	0.16-0.32 fl. oz. product

Footnotes

- Armyworms, Cutworms, and Sod Webworms: for best control, delay watering (irrigation) or mowing for 24 hours after application. Higher application rates (up to 0.32 fl oz pr 1000 sq ft) may be required if grass is being maintained at a mowing height of greater than 1" in periods of high pest pressure.
- Annual Bluegrass Weevil (*Hyperodes*) Adults: Time applications to control adult weevils as they leave their overwintering sites and move into grass. Generally, this movement begins when Forsythia is in full bloom and finishes when flowering dogwood is in full bloom. Your State Cooperative Extension Services can give more specific information regarding the timing of applications.
- 3 <u>Billbug Adults</u>: Apply when adult billbugs are first seen during April and May. Consult degree day models to optimize application timing, and consult your State Cooperative Extension Service for information specific to your region. In temperate regions, apply in spring to also provide control of over-wintered chinch bugs.
- 4 <u>Black Turfgrass Ataenius Adults</u>: Apply during May and July to control the first and second generations, respectively. Time the May application to coincide with the full bloom stage of Vanhoutte spiraea (*Spiraea vanhoutei*) and horse chestnut (*Aesculus hippocastanum*). Time the July application to coincide with the blooming of Rose of Sharon (*Hibiscus syriacus*).
- <u>Chinch Bugs</u>: irrigate the grass area before treatment to optimize penetration of the product to the base of grass plants and the thatch layer, where chinch bugs are found. If the thatch layer is excessive or if a relatively long mowing height is being maintained, use higher volume applications. Chinch Bugs are difficult to control in grasses and the higher labeled application rates may be necessary to control populations containing both nymphs and

adults during the middle of the summer.

Mites: for best control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application timed five to seven days after the first may be necessary for acceptable control.

Flea Larvae: These pests develop in the soil of shaded areas accessible to pets and other animals. When treating these areas, use a higher application volume to ensure the insecticide penetrates into the soil. Note: if the lawn area is being treated with this product at 0.10 fl oz/1000 sq ft for adult flea control, then the larval application rate may be achieved

by increasing the application volume two-to four-fold.

Imported Fire Ants: For best control, combine broadcast applications (to control foraging workers and newly mated fly-in queens) with mound drenches (to control existing colonies). If the soil is not moist, irrigate before application or use a high volume application. For broadcast treatments, use 0.32 fl oz/1000 sq ft. Treat mounds by diluting 0.05 fl oz Bifenture EC per gallon of water, and apply1 to 2 gallons of finished spray per mound. Treat the mounds with enough force to break the apex and allow the solution to flow into the ant tunnels. Also treat a four-foot diameter circle around the mound. For best results, apply in cool weather (65 – 80° F) or in early morning or late evening hours.

Mole Cricket Adults: Adult mole crickets are difficult to control because preferred grass areas are continuously invaded during the early spring. Apply as late in the day as possible, and water in with up to 0.5 inches of water immediately following treatment. If the soil is not moist, irrigate before application to bring the crickets closer to the soil surface and maximize exposure to the insecticide. In grass areas that receive pressure from adult mole crickets, treat at peak egg hatch to ensure control of subsequent nymph populations (see footnote

10 Mole Cricket Nymphs: In grass areas that receive intense pressure from adult mole crickets, treat immediately before peak egg hatch. Best control is achieved at that time because young nymphs are more susceptible to insecticides and they are located near the soil surface. To control larger, more damaging nymphs later in the year a higher application rate and more frequent applications may be necessary. Apply as late in the day as possible and water in with up to 0.5 inches of water immediately following treatment. If the soil is not moist, irrigate before application to bring the crickets closer to the soil surface and maximize exposure to the insecticide.

11 Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever): Do not make spot applications, but treat the entire area where exposure to ticks may occur. When treating areas with dense ground cover or heavy leaf litter, use higher spray volumes. Note that ticks may be reintroduced from surrounding areas or on host animals and retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Limit repeat application to no more than once per seven days, and only if there are signs of renewed activity. Deer Ticks (Ixodes sp.): This pest has a complex life-cycle that ranges over a two-year period and involves four life stages. Apply in the late fall and/or early spring to control adult ticks (usually located on brush or grass above the soil surface), and in mid to late sprig to control larvae and nymphs (found in the soil and leaf litter). American Dog Ticks: These ticks congregate along paths or roadways where humans are likely to be encountered. Apply as necessary from mid-spring to early fall to control larvae, nymphs, and adults.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent with applicable law all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, United Phosphorus, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or United Phosphorus, Inc., and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, UNITED PHOSPHORUS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, United Phosphorus, Inc. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product and THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHORUS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF UNITED PHOSPHORUS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

United Phosphorus, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus, Inc.

Ammo, Capture, Mustang – trademarks of FMC Corporation Ambush, Karate – trademarks of a Syngenta Group Company. Asana – trademark of E.I. duPont de Nemours & Company Baythroid – trademark of Bayer Danitol – trademark of Sumitomo Chemical Company, Ltd. Scout Xtra – trademark of Hoechst Schering Agrevo S.A.

Rev. 05/14/2015



Supplemental Label

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

BIFENTURE® EC AGRICULTURAL INSECTICIDE

EPA Reg. No. 70506-57

NOTE: Use on grasses is limited to the States of Idaho, Oregon, and Washington.

This supplemental label expires on December 31, 2018, and must not be used or distributed after this date.

For use on Grass Forage, Fodder, and Hay Group and Grass Grown for Seed, Pasture and Rangeland (including: bahiagrass, barnyardgrass, bentgrass, Bermudagrass, Kentucky bluegrass, big bluestem, smooth bromegrass, buffalograss, reed canarygrass, centipedegrass, crabgrass, cupgrass, dallisgrass, sand dropseed, Kentucky fescue, meadow foxtail, eastern gramagrass, sideoats grama, guinea grass, Indian grass, Johnsongrass, lovegrass, napiergrass, oatgrass, orchardgrass, pangolagraass, paspalum, redtop, Italian ryegrass, St. Augustine grass, sprangletop, squirreltailgrass, stargrass, switchgrass, timothy, crested wheatgrass, wildrye grass and zoysis grass. Also included are sudangrass and sorghum forages and their hybrids).

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

The supplemental labeling and the entire BIFENTURE EC container label, EPA Registration Number 70506-57, must be in the possession of the user at the time of the application. Read the label affixed to the container for BIFENTURE EC before applying. Carefully follow all precautionary statements and applicable use directions. Use BIFENTURE EC according to this supplemental labeling is subject to the use precautions and limitations imposed by the label affixed to the container for BIFENTURE EC.

ACCEPTED

05/15/2015

Under the Federal Insecticide, Fundicide and Radenhoide Act as amended, for the pesticide registered under EPA Reg No. 70506-57

United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 1-800-438-6071



UPI Supplemental Label

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS
Alfalfa Caterpillar Alfalfa Looper Alfalfa Weevil	6.4 fl. oz/A (0.1 lb ai/A)	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage.
Blue Alfalfa Aphid¹ Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles		Use higher specified rate for increased pest pressure or for increased residual pest control. Do not exceed maximum allowable rate.
Green Cloverworm Green Peach Aphid ¹ Hornworms Meadow Spittlebug Pea Aphid ¹		Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment.
Potato Leafhopper Spotted Alfalfa Aphid ¹ Threecornered Alfalfa Hopper Velvetbean Caterpillar Webworms		Higher volumes of finished spray may improve insect control under higher temperatures, when foliage is dense and/or when insect pressure is high.
Armyworm, southern Armyworm, true Armyworm, yellowstriped		Do not apply more than 0.2 lbs. active ingredient per acre per season.
Ant Cereal Leaf Beetle Chinch Bug		Do not make applications less than 14 days
Cricket Grass Mealybug Grasshoppers		Applications may be made up to 30 days prior to harvest for forage and hay.
Range Caterpillar Stink Bugs Armyworm, fall		Aphid control may be variable depending on species present and host-plant relationships.
Black Grass Bug Hunting Bill Bug Plant Bug spp.		

Read the Limitation of Warranty and Liability on the container labeling before buying or using BIFENTURE EC. If terms are not acceptable, return the unopened package at once to Seller for full refund of purchase price paid. Otherwise, use by Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the container label.

Rev. 05/15/2015

United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 1-800-438-6071

Rudick, Maggie

From:

Sherry Hutcheson <sherry hutcheson@uniphos.com>

Sent:

Friday, May 15, 2015 11:42 AM

To:

Rudick, Maggie

Subject: Attachments: Re: Electronic Label Request - EPA Reg # 70506-57 Bifenture EC

70506-57.20150515.Bifenture EC supplemental.pdf

Maggie,

Sorry for the oversight. Attached is the Supplemental label with the correction.

Sherry

Sherry Hutcheson Regulatory Affairs Manager

UPI

Office: 229-247-9041 Mobile: 229-251-7134

On Fri, May 15, 2015 at 9:24 AM, Rudick, Maggie < Rudick. Maggie@epa.gov > wrote:

Sherry -

The Primary Brand Name for 70506-57 is BIFENTURE EC AGRICULTURAL INSECTICIDE. Please correct on your supplemental label. The master, supplemental, and our records all must match exactly.

Maggie

From: Sherry Hutcheson [mailto:sherry.hutcheson@uniphos.com]

Sent: Thursday, May 14, 2015 9:32 AM

To: Rudick, Maggie

Subject: Re: Electronic Label Request - EPA Reg # 70506-57 Bifenture EC

Here are the ones for Bifenture EC (I sent the Bifenture 10DF yesterday)

Sherry

Sherry Hutcheson

Regulatory Affairs Manager

Rudick, Maggie

From:

Sherry Hutcheson <sherry.hutcheson@uniphos.com>

Sent:

Tuesday, May 12, 2015 5:20 PM

To:

Rudick, Maggie

Subject: Attachments: Re: Electronic Label Request - EPA Reg # 70506-57 Bifenture EC

70506-57.20150505.Bifenture EC marked.pdf; 70506-57.20150512.Bifenture EC clean.pdf;

70506-57.20150512.Bifenture EC agency data matrix.pdf; 70506-57.20150512.Bifenture EC

public data matrix.pdf

Maggie, Attached are the documents as requested. Best regards, Sherry

Sherry Hutcheson Regulatory Affairs Manager **UPI**

Office: 229-247-9041 Mobile: 229-251-7134

On Thu, May 7, 2015 at 5:24 PM, Rudick, Maggie < Rudick.Maggie@epa.gov > wrote:

Sherry –

There are a few line breaks which need to be removed. Additionally, you need to address product specific efficacy data on your data matrix. Efficacy data is not generic data. You can list it as Product Specific Efficacy Data -CITE ALL.

Please let me know if you have any questions!

Maggie Rudick U. S. Environmental Protection Agency Office of Pesticides Program Registration Division; Invertebrate & Vertebrate Branch I (703) 347-0257 Rudick.Maggie@epa.gov

From: Sherry Hutcheson [mailto:sherry.hutcheson@uniphos.com]

Sent: Wednesday, May 06, 2015 10:42 AM

To: Rudick, Maggie

Subject: Re: Electronic Label Request - EPA Reg # 70506-227

Maggie,

Attached are the marked and clean copies for the 10DF label.

Sherry

Sherry Hutcheson

Regulatory Affairs Manager

UPI

Office: 229-247-9041

Mobile: 229-251-7134

On Wed, Apr 29, 2015 at 4:36 PM, Rudick, Maggie < Rudick.Maggie@epa.gov > wrote:

Sherry -

The reformatting is much more clear. I found a few very minor revisions – mostly some restrictions which were only listed in the application instructions section. Once we get these back, I'll make sure this is a quick turnaround.

Maggie Rudick
U. S. Environmental Protection Agency
Office of Pesticides Program
Registration Division; Invertebrate & Vertebrate Branch I
(703) 347-0257
Rudick.Maggie@epa.gov

From: Sherry Hutcheson [mailto:sherry.hutcheson@uniphos.com]

Sent: Wednesday, April 15, 2015 5:57 PM

To: Rudick, Maggie

Subject: Re: Electronic Label Request - EPA Reg # 70506-227

Maggie,

Received and attached are the Bifenture 10DF labels with requested changes.

I am traveling tomorrow but hope to have the EC (57) labels to you as well.

Best regards,

Sherry

Sherry Hutcheson

Regulatory Affairs Manager

UPI

Office: 229-247-9041

Mobile: 229-251-7134

On Mon, Apr 13, 2015 at 11:52 AM, Rudick, Maggie < Rudick. Maggie @epa.gov > wrote:

Sherry -

Here are the labels for 70506-227 with your comments addressed. As for the comments on pages 5 and 10, I don't understand how maximum rates would not apply to in furrow applications.

The same revisions are needed for 70506-57 as well and these label should be reformatted.

Thank you and please let me know if you have any additional questions.

Maggie Rudick
U. S. Environmental Protection Agency
Office of Pesticides Program
Registration Division; Invertebrate & Vertebrate Branch I
(703) 347-0257
Rudick.Maggie@epa.gov

From: Sherry Hutcheson [mailto:sherry.hutcheson@uniphos.com]

Sent: Monday, April 13, 2015 11:31 AM

To: Rudick, Maggie

Subject: Re: Electronic Label Request - EPA Reg # 70506-227

Maggie,

Did you send an attachment? If so, I didn't receive the message. Could be the file is too large. Try sending one at the time if that is the case.

Sherry

Sherry Hutcheson

Regulatory Affairs Manager

UPI

Office: 229-247-9041

Mobile: 229-251-7134

On Mon, Apr 13, 2015 at 11:21 AM, Rudick, Maggie < Rudick.Maggie@epa.gov > wrote:

Sherry -

This message kicked back, can you please confirm receipt?
Thanks!
Maggie
From: Rudick, Maggie Sent: Monday, April 13, 2015 11:05 AM To: 'Sherry Hutcheson' Cc: Davis, Kable Subject: RE: Electronic Label Request - EPA Reg # 70506-227
Sherry –
These labels will need to be reformatted accordingly. It is not clear which restrictions apply to each use and pest. Please let me know if you have any additional questions.
Thank you,
Maggie Rudick U. S. Environmental Protection Agency Office of Pesticides Program Registration Division; Invertebrate & Vertebrate Branch I (703) 347-0257 Rudick.Maggie@epa.gov

From: Sherry Hutcheson [mailto:sherry.hutcheson@uniphos.com]

Sent: Monday, March 30, 2015 12:02 PM

To: Rudick, Maggie **Cc:** Davis, Kable

Subject: Re: Electronic Label Request - EPA Reg # 70506-227

Maggie,

Here are the products (since this will apply to the liquid product as well)

BRIGADE WSB INSECTICIDE/MITICIDE

EPA Registration Number: 279-3108

Company Number: 279

FMC CORP. AGRICULTURAL PRODUCTS GROUP

ATTN: MR. MICHAEL C. ZUCKER

1735 MARKET ST., RM 1978

PHILADELPHIA PA 19103

215/299-5876

Approval Date:

06-01-1995

Product Manager: Richard Gebken (703)305-6701

Percent

Active Ingredient

10.0000

Bifenthrin (128825)

BRIGADE 2EC INSECTICIDE/MITICIDE

EPA Registration Number: 279-3313

Company Number: 279

FMC CORP. AGRICULTURAL PRODUCTS GROUP

ATTN: MR. MICHAEL C. ZUCKER 1735 MARKET ST., RM 1978

PHILADELPHIA PA 19103

215/299-5876

Approval Date:

04-24-2006

Product Manager: Richard Gebken (703)305-6701

Percent

Active Ingredient

25.1000

Bifenthrin (128825)

Sherry Hutcheson

Regulatory Affairs Manager

UPI

Office: 229-247-9041

Mobile: 229-251-7134

On Mon, Mar 30, 2015 at 11:49 AM, Rudick, Maggie < Rudick. Maggie@epa.gov > wrote:

Sherry -

Can you please send the Reg # for the FMC product. As for your question, yes, this is the direction we are moving for all the labels. I understand that many similar products list rates in a 'per season' fashion, this will be cleaned up during registration review, but we do require a maximum total use rate per year for the product based on our assessments.

Please let me know if you have any further questions.

Maggie Rudick
U. S. Environmental Protection Agency
Office of Pesticides Program
Registration Division; Invertebrate & Vertebrate Branch I
(703) 347-0257
Rudick.Maggie@epa.gov

From: Sherry Hutcheson [mailto:sherry.hutcheson@uniphos.com]

Sent: Friday, March 27, 2015 10:40 AM

To: Rudick, Maggie

Subject: Re: Electronic Label Request - EPA Reg # 70506-227

Maggie,

I have had an opportunity to look through the label comments, and I need some clarification and hopeful some understanding on what is required for us to do.

From the looks of the comments, EPA wants the label reformatted at this time. This label is setup similar to the FMC approved label for Brigade WSB. You will note from their label under DIRECTIONS for each crop, the same information is listed as is on our label. Please advise if all registrants are going to be required to reformat their labels too at this time, or if this is something we can do at the next submission since this was just to add one new use site; hence the supplemental label.

Regarding your comment on Page 5, #4 - 'Do these restrictions apply to the grubs/maggots, wireworm application. These restrictions are only for the FOLIAR use which applies to aphids, etc. Which is why it is the row corresponding with those pests.

On page 10, comment #1, FMC's label is set up the same way. Please advise.

on page 16, comment #3, per acre per season. This is the same as FMC's label and the way that

Please advise.

Best regards,

Sherry

Sherry Hutcheson

Regulatory Affairs Manager

UPI

Office: 229-247-9041

Mobile: 229-251-7134

On Mon, Mar 16, 2015 at 5:29 PM, Rudick, Maggie < Rudick.Maggie@epa.gov > wrote:

Sherry -

Here are the revisions to be made to EPA Reg # 70506-227 (master and supplemental) labels. To summarize, minor formatting issues were requested along with clarification on per season/per year rate. We do not like to approve "per season" rates, but instead give the user a maximum use rate per year. A max yearly rate must be on your label. Additionally, throughout your directions for use, restrictions and precautions must be separated out.

Thank you!

Maggie Rudick
U. S. Environmental Protection Agency
Office of Pesticides Program
Registration Division; Invertebrate & Vertebrate Branch I
(703) 347-0257
Rudick.Maggie@epa.gov

From: Sherry Hutcheson [mailto:sherry.hutcheson@uniphos.com]

Sent: Friday, January 09, 2015 4:44 PM

To: Rudick, Maggie

Subject: Re: Electronic Label Request - EPA Reg # 70506-57, 70506-227

Maggie,

Attached are the pdf versions of the labels as requested.

Best regards,

Sherry

Sherry Hutcheson

Regulatory Affairs Manager

United Phosphorus, Inc.

Office: 229-247-9041

Mobile: 229-251-7134

On Fri, Jan 9, 2015 at 2:36 PM, Rudick, Maggie < Rudick. Maggie @epa.gov > wrote:

Sherry -

Can you please emailed me PDF searchable versions of your proposed labeling for the label amendments sent in Dec 17/18 for EPA Reg # 70506-57 and 70506-227?

Thank you!

Maggie Rudick
U. S. Environmental Protection Agency
Office of Pesticides Program
Registration Division; Invertebrate & Vertebrate Branch I
(703) 347-0257
Rudick.Maggie@epa.gov





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

WASHINGTON, D.C. 20460

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DATA MATRIX Date: May 12, 2015 EPA Reg. No./ File Symbol Page 1 of 4 70506-57 Applicant's/Registrant's Name and Address: Product: Bifenture EC Insecticide United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA					
830.1550	Chemical Identity	46092701	United Phosphorus, Inc.	OWN	
830.1600	Starting Materials	46092701	United Phosphorus, Inc.	OWN	
830.1650	Description of Formulation Process	46092701	United Phosphorus, Inc.	OWN	
830.1670	Discussion of Formation of Impurities	46092701	United Phosphorus, Inc.	OWN	
830.1750	Certified Limits	46092701	United Phosphorus, Inc.	OWN	
830.1800	Enforcement Analytical Method	46092701	United Phosphorus, Inc.	OWN	
830.6302	Color	46092702	United Phosphorus, Inc.	OWN	
330.6303	Physical State	46092702	United Phosphorus, Inc.	OWN	
330.6304	Odor	46092702	United Phosphorus, Inc.	OWN	-
330.6314	Oxidation/Reduction	46092702	United Phosphorus, Inc.	OWN	+
330.6315	Flammability	46092702	United Phosphorus, Inc.		
330.6316	Explodability	46092702	United Phosphorus, Inc.	OWN	
30.6317	Storage Stability	46092702	United Phosphorus, Inc.	OWN	
30.6319	Miscibilty	46092702	United Phosphorus, Inc.	OWN	·
30.6320	Corrosion Characteristics	46092702	United Phosphorus, Inc.	OWN	
30.6321	Dielectric Breakdown Voltage	46092702	United Phosphorus, Inc.	OWN OWN	
30.7000	рН	46092702	United Phosphorus, Inc.	OWN	

Signature Signature 2)		
Spanier Stuy BH	Name and Title	Date
EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper versions	Sherry B. Hutcheson/Regulatory Affairs Manager	05/12/2015

Form 85/0-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

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	DATA MATRIX	
Date: May 12, 2015	EPA Reg. No./ File Symbol 70506-57	Page 2 of 4
Applicant's/Registrant's Name and Address: United Phosphorus, Inc.	Product: Bifenture EC Insecticide	
630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 Ingredient: Bifenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7300	Density/Relative Density/Bulk Density	46092702	United Phosphorus, Inc.	OWN	
870.1100	Acute Oral Toxicity	132527	FMC	OLD	
870.1200	Acute Dermal Toxicity	132528	FMC	OLD	
870.1300	Acute Inhalation Toxicity	144256	FMC	OLD	
870.2400	Eye Irritation	46183601	United Phosphorus, Inc.	OWN	
870.2500	Dermal Irritation	132529	FMC	OLD .	
870.2600	Dermal Sensitization	132531	FMC	OLD	
GENERIC DATA				ODD	·

Signature Q.1		
Shung 611	Name and Title	Date
FPA Form 9570 25 (0.07) 71	Sherry B. Hutcheson/Regulatory Affairs Manager	05/12/2015





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DATA MATRIX Date: May 12, 2015 EPA Reg. No./File Symbol Page 3 of 4 70506-57 Applicant's/Registrant's Name and Address: Product: Bifenture EC Insecticide United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
RESIDUE DATA		CITE ALL	Nufarm Americas, Inc., The Scotts Company, FMC Corp Agricultural Products Group, Bayer Environmental Science, BASF Corp., Lebanon Seaboard Corp., MGK Co., Fuller System, Inc., Winfield Solutions, LLC, Sergeants Pet Care Products, Inc., Aceto Agricultural Chemicals Corp., SC Johnson & Son, Inc., Amvac Chemical Corp., Helena Chemical, Co., Southern States Cooperative, Inc., Nippon Soda Co., Ltd., The Andersons Lawn Fertilizer Division, Sunniland Corp., Chemsico, Lesco, Inc., Makhteshim Chemical Works, Ltd., Loveland Products, Inc., Howard Fertilizer & Chemcial Co., Inc., Albaugh Inc., BASF Sparks LLC, Control Solutions, Inc., Arizona Chemical Group, Inc., Valent USA Corp., Pyrethroid Working Group, Makhteshim Agan of North America, Inc., Arysta Lifescience North America, LLC, Spray Drift Task Force, Bengal Products, Inc., Outdoor Residential Exposure Task Force, Agricultural Reentry Task Force, Sapstain Industrustry Group, Non-Dietary Exposure Task Force, Univar Environmental Sciences, FIFRA Endangered Species Task Force, Residential Exposure Joint Venture, Atex Inc., Agricultural Handler Exposure Task Force, Osmose Utilities Services, Inc., Ensystex II, Inc., Direct Ag Source, LLC, Tacoma Ag, LLC, Ensystex IV, Inc., Tacoma Ag, LLC, Wet & Forget USA, Ltd., Generic Endangered Species Task Force, Kaizen Technologies, LLC, Bifenthrin Task Force Steering Comm., Vive Crop Protection, Inc., Liberty Crop Protection, LLC	PAY	UPI holds memberships in the following: SDTF, ORETF, ARETF, AHETF, GESTF, and BTF.
860.1340	MOR: Grasses	CITE-ALL	Same as above	PAY	

Signature C		_
Xhim K V	Name and Title	Date
EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.	Sherry B. Hutcheson/Regulatory Affairs Manager	05/12/2015
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Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

WASHINGTON, D.C. 20460

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	DATA MATRIX	
Date: May 12, 2015	EPA Reg. No./ File Symbol 70506-57	Page 4 of 4
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 Ingredient: Bifenthrin (PC 128825)	Product: Bifenture EC Insecticide	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC EFFICACY DATA		CITE ALL	Same as above	PAY	

Signature		^		
Signature	$\leq \sim$	Ø 11	Name and Title	Dete
	Milant	<u> </u>		Date
L	- CIWO R		Sherry B. Hutcheson/Regulatory Affairs Manager	05/12/2015
EPA Form 85	570-35 (9-97) ENACAC	onic and Donar wornians available O. L. it I P	· · · · · · · · · · · · · · · · · · ·	03/12/2013

Please read instructions on reverse before con	EXPEDITE Form Approve	ed, OMB No. 2070-0060, Approval
United State EPA Environmental Prote Washington, DC	ection Agency	OPP Identifier Number
Applio	cation for Pesticide - Section I	
Company/Product Number 70506-57 Company/Product (Name)	EPA Product Manager Richard Gebken PM#	3. Proposed Classification
Bifenture EC Agricultural Insecticide 5. Name and Address of Applicant (Include ZIP Code) United Phosphorus, Inc. 630 Freedom Business Center, Ste. 402 King of Prussia, PA 19406	6. Expedited Review . In accordance (b)(I), my product is similar or identicato: EPA Reg. No. Brigade 2EC Product Name 279-3313	None Restricted with FIFRA Section 3(c)(3) al in composition and labeling
Check if this is a new address	Section - II	
Amendment – Explain below. Resubmission in response to Agency letter dated Notification - Explain below. Explanation: Use additional page(s) if necessal Fast track label amendment to add use for grasses.	Other - Explain below	to Agency letter dated
	Section - III	
1. Material This Product Will Be Packaged In: Child-Resistant Packaging Yes* No No If "Yes" Unit Packaging If "Yes" Unit Packaging wgt. be submitted	Water Soluble Packaging Yes No. per container Water Soluble Packaging Yes No. per Package wgt. No. per Container	2. Type of Container Metal Plastic Glass Paper
3. Location of Net Contents Information 4. Size	On Lab	of Label Directions oel eling accompanying product
☐ Pap	nograph Other per glued enciled	g accompanying product
	Section - IV	
Contact Point (Complete items directly below for identification Name Sherry B. Hutcheson	tion of individual to be contacted, if necessary, to proces Title Regulatory Affairs Manager	res this application) Telephone No. (Include Area Code) 229-247-9041
Certification of the statements I have made on this form and all acknowledge that any knowingly false or misleading stateme under applicable law.	ation attachments thereto are true, accurate and complete.	6. Date Application Received (Stamped)

se or misleading statement may be punishable by fine or imprisonment or both under applicable law:

2. Signature

4. Typed Name Sherry B. Hutcheson

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

3. Title Regulatory Affairs Manager

5. Date 12/17/2014

White- EPA File Copy (original) Yellow- Applicant Copy



United Phosphorus, Inc.

Sherry B. Hutchese a 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Phone: (229) 247-9041

December 17, 2014

Document Processing Desk (AMEND) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency 1200 Pennsylvania Avenue, NW Washington, DC 20460

ATTENTION: Richard Gebken (PM 10)

Subject: Label Amendment for Bifenture EC (EPA Reg. No. 70506-57)

Dear Mr. Gebken,

United Phosphorus, Inc. (UPI) is submitting a label amendment for our product Bifenture EC (EPA Reg. No. 70506-57), containing bifenthrin as the active ingredient.

It is our intent to add use on grasses for the states of Idaho, Oregon and Washington. This use has already been approved and is on the Brigade 2EC (EPA Reg. No. 279-3313) label which is substantially similar to our product and label.

It is our intent to remove Washington and Oregon as the only states in which this product may be applied on Christmas trees. This is a carryover from an old approved special local needs (24 c) registration in those two states which was added when we registered the product. Christmas trees are grown in other states and bifenthrin products, including Bifenture EC are used by cooperative agencies in these additional states as a means to control pests. The use rate has been increased to match the maximum allowed use rate and is similar to that of another approved product. The rate is the same as other tree crops on the currently approved label. Per the provisions of PR Notice 98-10, we are adding additional pests to this use site.

In addition to this letter, we have included the following:

- An application form, EPA form 8570-1,
- Certificate with Respect to Data Citation, EPA form 8570-34,
- Data Matrix, Public Copy EPA form 8570-35
- Data Matrix, Agency Copy, EPA form 8570-35
- One copy of the label clearly marked
- Two clean copies of the proposed label (master label)
- Two clean copies of the proposed supplemental label



United Phosphorus, Inc.

Sherry B. Hutcheson 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Phone: (229) 247-9041

All changes are highlighted in the marked copy of the label. We believe this qualifies for a fast-track amendment and since no data are being submitted, no PRIA fee is required.

If you have any questions or comments, please feel free to contact me at sherry.hutcheson@uniphos.com or 229-247-9041.

Best regards,

Sherry B. Hutcheson

Regulatory Affairs Manager



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

and 0.25 hours per response for reregistration and special review activities, including time for comments regarding burden estimate or any other aspect of this collection of information, including Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Ave to this address.	reading the instructio	ns and completing the necessary forms. Send			
Certification with Respect to 0	Citation of Data				
Applicant's/Registrant's Name, Address, and Telephone Number United Phosphorus, Inc., 630 Freedom Business Ctr, King of Prussia PA 19406 Te	el: 229-247-9041	EPA Registration Number/File Symbol 70506-57			
Active Ingredient(s) and/or representative test compound(s) Bifenthrin		Date December 17, 2014			
General Use Pattern(s) (list_all those claimed for this product using 40 CFR Part 158 terrestrial food crop)	Product Name Bifenture EC Agricultural Insecticide			
NOTE: If your product is a 100% repackaging of another purchased EPA-registere submit this form. You must submit the Formulator's Exemption Statement (EPA Form	ed product labeled for 8570-27).	or all the same uses on your label, you do not need to			
I am responding to a Data-Call-In Notice, and have included with this form a be used for this purpose).	list of companies se	ent offers of compensation (the Data Matrix form should			
SECTION I: METHOD OF DATA SUPP	ORT (Check one m	nethod only)			
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).					
SECTION II: GENERAL (OFFER TO PAY				
[Required if using the cite-all method or when using the cite-all option under the selection of the selectio					
SECTION III: CERT	IFICATION				
I certify that this application for registration, this form for reregistration, or th application for registration, the form for reregistration, or the Data-Call-In response. In indicated in Section I, this application is supported by all data in the Agency's files that substantially similar product, or one or more of the ingredients in this product; and (2) is requirements in effect on the date of approval of this application if the application souguses.	addition, if the cite- t (1) concern the pro is a type of data tha	all option or cite-all option under the selective method is operties or effects of this product or an identical or twould be required to be submitted under the data			
l certify that for each exclusive use study cited in support of this registration the written permission of the original data submitter to cite that study.	or reregistration, tha	at I am the original data submitter or that I have obtained			
I certify that for each study cited in support of this registration or reregistration submitter; (b) I have obtained the permission of the original data submitter to use the scorrepensation have expired for the study; (d) the study is in the public literature; or (e) offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(d) amount and terms of compensation, if any, to be paid for the use of the study.	study in support of the I have notified in wr	nis application; (c) all periods of eligibility for iting the company that submitted the study and have			
I cerrify that in all instances where an offer of compensation is required, copaccordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be evidence to the Agency upon request, I understand that the Agency may initiate action FIFRA.	e submitted to the	Agency upon request. Should I fail to produce such			
I certify that the statements I have made on this form and all attachmoknowingly false or misleading statement may be punishable by fine or imprisor	ents to it are true, nment or both und	accurate, and complete. I acknowledge that any ler applicable law.			
Signature Sheurb T	Date 12/17/2014	Typed or Printed Name and Title Sherry B. Hutcheson/Regulatory Affairs Manager			

EPA Form 8570-34 (12-2003) Electronic and Paper versions available. Submit only Paper version.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

January 28, 2014

Ms. Sherry B. Hutcheson Regulatory Affairs Manager United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Subject: Minor Formulation Amendment

Dear Ms. Hutcheson:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 12/17/2013 for **EPA Registration 70506-57**. The Registration Division (RD) has conducted a review of the Confidential Statement of Formula (CSF) submitted with this request for its applicability under PRN 98-10 and finds that the change(s) requested falls within the scope of PRN 98-10. Therefore, the proposed new Alternate Formulation #4 CSF dated 12/16/2013, is **acceptable**. A copy of the CSF has been added to the registration file for the subject product.

Please note that any future label will require an indication that the product contains petroleum hydrocarbons.

If you have any questions, please contact me via telephone at 703-305-7990 or e-mail (cutchin.william@epa.gov).

Sincerely,

William Cutchin

William Intlin

Inert Ingredient Assessment Branch (IIAB)

Registration Division (7505P)

Office of Chemical Safety and Pollution Prevention



Due 2/6/1

United Phosphorus, Inc.

Sherry B. Hutcheson 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Phone: (229) 247-9041 Fax: (229) 241-9699

December 17, 2013

Attn: Minor Formulation Review Coordinator

Document Processing Desk (MFRC) Office of Pesticide Programs (7504P) US Environmental Protection Agency 1200 Pennsylvania Avenue, NW Washington, DC 20460

Subject: Minor Formulation Amendment per PR Notice 98-10 for Bifenture EC

Agricultural Insecticide (EPA Reg. No. 70506-57)

Dear Sir or Madam,

Please note this letter serves to provide a minor formulation amendment to our Bifenture EC Agricultural Insecticide (70506-57) registration. We believe this meets the criteria as described in PR Notice 98-10 for an accelerated review of minor formulation changes. The following are provided in support of this alternate formulation:

One completed EPA form 8570-1, Application for Pesticide Registration,

- One copy of the alternate approved CSF dated May 9, 2012 (for reference)
- Two original copies of the alternate CSF, EPA form 8570-4, with attachments
- Supporting MSDS for the alternate inert ingredient, as required.

Please note this does not replace any formulation on file with EPA. This formulation has previously been reviewed and approved by EPA per the CSF dated May 9, 2012. The only change has been to add an alternate inert ingredient and to add an addendum for a listing of producers and additional country where this product can be formulated. No other changes have been made.

Should you require additional information or have questions concerning this submission, please contact me at 229-247-9041 or sherry.hutcheson@uniphos.com.

Sincerely,

Sherry B. Hutcheson

Regulatory Affairs Manager

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United States

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☐ Registration	OPP Identifier Number
☐ Amendment	
57 64	

EPA En	vironmental Prote	ction Agency	☐ Amend	lment	Or r identifier Number
	Washington, DC			Minor Formula	ition
	Ammili		Amend	dment	no.
Company/Product Number	Аррис	cation for Pesti		n I	
70506-57	-	2. EPA Pro MFRC	oduct Manager		Proposed Classification
Company/Product (Name) Bifenture EC Agricultural Inse	ecticide	PM#			None Restricted
Name and Address of Applicant ((Include ZIP Code)	6. Exped	ited Review	n cocordance w	vith FIFRA Section 3(c)(3)
United Phosphorus, Inc. 630 Freedom Business Cen King of Prussia, PA 19406		to: EPA Reg.	. No	lar or identical ir	rith FIFRA Section 3(c)(3) n composition and labeling
Check if this is a new a	address	Product N	iame		
		Section	- 11		
Amendment Explain below. Resubmission in response to A Notification - Explain below. Explanation: Use additiona	al page(s) if necessar	ery (For Section I	"Me Too" Applica Other - Explain	below	Agency letter dated
Alternate CSF - Minor Formula 57). This notification is consist changes have been made to the USC Sec. 1001 to willfully mak terms of PR Notice 98-10 and 4 and penalties under sections 12	labeling or the confide ke any false statement to 40 CFR 152.46, this pro-	ential statement of to EPA. I further unoduct may be in vio	-10 and EPA regulation formula of this punderstand that if it is contact that if it is a first that it is a	ulations at 40 CFI product. I underst	R 152.46, and no other tand that it is a violation of 18
		Section -	· III		
Material This Product Will Be Pac Child-Resistant Packaging Yes* No	ckaged In: Unit Packaging Yes No If "Yes"		Water Soluble Pack Yes No		2. Type of Container Metal Plastic
*Certification must	If "Yes" Unit Packaging wgt.		f "Yes" Package wgt.	No. per container	Glass Paper
be submitted					Other (Specify)
Location of Net Contents Informat Label	,	s) Retail Container		5. Location of L	_abel Directions
6. Manner in Which Label is Affixed	Pape	ograph per glued nciled	Other	On labeling	g accompanying product
		Section - I			
1. Contact Point (Complete items dire			contacted, if neces	ssary, to process th	nis application)
Name Sherry B. Hutcheson	Ti	ritle Regulatory Affa		ie	Plephone No. (Include Area ode) 229-247-9041
I certify that the statements I have ma acknowledge that any knowingly false under applicable law.	Certificat ade on this form and all at e or misleading statement	attachments thereto ar nt may be punishable t	re true, accurate ar by fine or imprison	nd complete. I ment or both	6. Date Application Received (Stamped)
2. Signature		3. Title Regulatory Affai	irs Manager		
4. Typed Name Sherry B. Hutcheson		5. Date 12/16/13			

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

White- EPA File Copy (original) Yellow- Applicant Copy



United Phosphorus, Inc.

Sherry B. Hutcheson 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

> Phone: (229) 247-9041 Fax: (229) 241-9699

July 12, 2013

Document Processing Desk (FPL) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency 1200 Pennsylvania Avenue, NW Washington, DC 20460

ATTENTION: Richard Gebken (PM 10)

Subject: Final Printed Label for Bifenture EC (EPA Reg. No. 70506-57)

Dear Mr. Gebken,

United Phosphorus, Inc. (UPI) is submitting a final printed label for our product, Bifenture EC, EPA Reg. No. 70506-57. This is in response to the approval dated June 12, 2013.

In addition to this letter, we have included the following:

- An application form, EPA form 8570-1,
- Two copies of the final printed label

If you have any questions or comments, please feel free to contact me at sherry.hutcheson@uniphos.com or 229-247-9041.

Best regards,

Sherry B. Hutcheson

Regulatory Affairs Manager

	11:11 101 1				
EPA EN	United States		☐ Registr	ation	OPP Identifier Number
En	vironmental Protection		Amend	ment	
	Washington, DC 204	460	Other:		
	Applicati	on for Pestic		n l	
1. Company/Product Number	<u></u>	2. EPA Produ			Proposed Classification
70506-57 4. Company/Product (Name)		Richard Ge	bken		
Bifenture EC		PM#			None Restricted
5. Name and Address of Applicant (Include ZIP Code)	10	- Daview l		=
United Phosphorus, Inc.		(h)(l) my nr	oduct is simil	1 accordance	with FIFRA Section 3(c)(3)
630 Freedom Business Cen	ter, Suite 402	to:	Oddot is simil	ai oi iuciiicai	in composition and labeling
King of Prussia, PA 19406		EPA Reg. N	lo.		
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Notification - Explain below.			Other - Explain	below	
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		Section - II	il	-	
Material This Product Will Be Page				, , , , , , , , , , , , , , , , , , ,	
Child-Resistant Packaging	Unit Packaging	Wa	ater Soluble Pack	caging	2. Type of Container
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6. Manner in Which Label is Affixed	to Product Lithogra	ınh	Other	UII Iabeii	ing accompanying product
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		Section - IV			
Contact Point (Complete items directly)		of individual to be co	ontacted, if nece	ssary, to process	this application)
Name Sherry B. Hutcheson	Title		-		Telephone Νο. (include Aτεε
Sileny B. Hutcheson		egulatory Affair	s Manager		Code)229-247-9041
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Sherry B. Hutcheson		ly 12, 2013			
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EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

White- EPA File Copy (original) Yellow- Applicant Copy

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision, and only for the uses covered by the certified applicator's certification.

GROUP 3A INSECTICIDE

BIFENTURE EC AGRICULTURAL INSECTICIDE

ACTIVE INGREDIENT:	Y WT.
3ifenthrin* (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	I WI.
OTHER INGREDIENTS***	5.1%
OTHER INGREDIENTS**:	4.9%
10	0.0%
ois isomers 97 % minimum, trans isomers 3% maximum.	0.070
*Contain xylene range aromatic solvents	
his product contains 2 pounds active ingredient per gallon.	

EPA Reg. No. 70506-57

WARNING AVISO

This label must be in the possession of the user at the time of application. Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

	FIRST AID
if swallowed	 Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
lf on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR EMERGENCY MED'SA'. ASSISTANCE, CALL THE ROCKY MOUNTAIN POISON CONTROL CENTER 1-866-673-6671.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.



NET CONTENTS: _____ GALLONS



Manufactured for: United Phosphorus, Inc. • 630 Freedom Business Center, Suite 402 • King of Prussia, PA 19406 U.S.A. • 1-800-438-6071

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

Warning

WARNING. May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Harmful if absorbed through skin or inhaled. Avoid breathing spray mist. Avoid contact with skin. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, Nitrile rubber, neoprene rubber or Viton
- · Shoes plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, Nitrile rubber, neoprene rubber, or Viton
- · Shoes plus socks
- · Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Resistance:

Any insect/mite population may contain individual insects that may develop resistance to a specific pesticide product used in consecutive generations to control these pests. Prediction of resistance development is uncertain. Follow appropriate resistance management strategies. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or Integrated Pest Management recommendations for the specific site and pest problems in your area.

If resistance to this product develops in your area, you may find reduced control from this product or other products with a similar mode of action. If poor performance cannot be related to improper application methods or extreme weather, it is possible that a resistant strain of insect may be present. If poor control occurs and resistance is a reasonable cause, immediately consult with your local UPI representative or agricultural advisor for the best alternative method of control for your area.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during restrictedentry interval (REI) of **12** hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- · Coveralls.
- Chemical-resistant gloves, such as barrier laminate or Nitrile rubber or neoprene rubber or Viton.
- · Shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store above 40°F.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Disposal: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

[For containers smaller than 5 gallons] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

[For containers larger than 5 gallons] Triple rinse or pressure rinse as follows:

<u>Triple rinse:</u> Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

<u>Pressure rinse:</u> Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after flow begins to drip.

Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Chemigation Use Directions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. Use a minimum of 0.75 inch of water per acre for LEPA irrigation. Use 1 to 2 pints per acre of non-emulsified oils when used as the diluent.

The set up and calibration of chemigation equipment are important to achieve control of target insect pests. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers or other experts for advice on the suitability of the equipment set up for optimum control of the target insect pests.

A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply Bifenture EC Agricultural Insecticide continuously for the duration of the water application. Dilute Bifenture EC Agricultural Insecticide in sufficient volume to ensure accurate application over the area to be treated. Use a minimum of 0.5 inch per acre of irrigation water for application by chemigation. No agitation is required if a suitable diluent is used. Conduct a diluent test to check that phase separation will not occur during dilution and application. If uniform dilution is not achieved during the entire period of application, undesirable residues or less than decirable control may occur.

Rotation Crop Restrictions

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days after the last application.

Tank-Mixes

Apply Bifenture EC Agricultural Insecticide with other products registered for the same crops. Read and follow all applicable directions, restrictions, and precautions on the EPA-registered labels for other tank mix partners.

Buffer Zones

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses*. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversions

Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to applications.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Instructions for Application

The following Directions for Use tables provide, in some cases, rate ranges. Use the lower application rates when insect pressure is light to moderate. Use the higher application rates when insect populations are high, when treating mites and when climate is arid.

Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetated filter strip.

In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or permanent streams that drain into coastal marshes.

INDEX TO CROPS LISTED ON THIS LABEL

Artichokes

Beans and Peas (Dry)

Beans and Peas (Succulent)

Beets, Garden (see Root Crops)

Brassica

Caneberries

Canola, Crambe, Rapeseed

Christmas Trees (WA and OR only)

Cilantro, Coriander

Citrus

Conifer Seed Orchards (AL, AR, FL, GA, LA, MS, OK, SC, TN, TX, VA only)

Cotton

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (At Planting Use)

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (PRE & PPI)

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed (Foliar Use)

Sweet Corn, Sweet Corn Grown for Seed (At Planting Use)

Sweet Corn, Sweet Corn Grown for Seed (Foliar Use)

Cucurbits

Fruiting Vegetables

Grapes

Hops

Leafy Brassica Greens (Crop Subgroup 5-B)

Lettuce, Head

Mayhaw

Okra

Peanut

Pears

Root Crops (except Sugarbeets)

Soybean

Spinach Tobacco

Tomatoes, Tomatillos (see under Fruiting Vegetable instructions)

Tree Nut Crops

Tuberous and Corm Vegetables (Crop Subgroup 1-C)

ARTICHOKES

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI
Artichoke Plume Moth Cribrate Weevil	0.10 lb. a.i. (6.4 fl. oz. product)	Begin applications when pest population reaches damaging levels and repeat as necessary to maintain control.	(days) 5
		Apply in water in a minimum of 75 gallons of spray/A by ground or in a minimum of 10 gallons/A by air.	
		Do not make applications less than 15 days apart.	
		Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season.	

SUCCULENT BEANS AND PEAS

CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PH (day
Bean (Phaseolus spp.): Broadbean (succulent) Lima bean (green)	Flea Beetle Aster Leafhopper Leafhoppers	0.025-0.10 lb. a.i. (1.6-6.4 fl. oz. product)	stitute 1-2 quarts of emulsified oil for 1-2 quarts water if	3
	Alfalfa Caterpillar Aphids Armyworms Beet Fall Southern Yellowstriped Beetles Bean Leaf Cucumber Japanese (Adult) Mexican Bean Sap Bugs Plant Bugs Stink Bugs Tarnished Plant Bugs Cloverworm Corn Earworm Corn Rootworm (Adult) Cutworms European Corn Borer Imported Cabbageworm Leafminers Loopers Pea Leaf Weevil Pea Weevil Saltmarsh Caterpillar Thrips Tobacco Budworm Webworms Western Bean Cutworm Whitefly Banks Grass Mite Carmine Mite Lygus spp.	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)	desired. For best control thorough coverage is necessary. Do not apply more than 0.20 lb. a.i. (12.8 fl. oz. of product) per acre per season.	

DRIED BEANS AND PEAS

	DINED BEARS AND FEAS				
CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	
Dried cultivars of: Bean (Lupinus) Bean (Phaseolus)	Flea Beetle Aster Leafhopper Leafhoppers	0.025-0.10 lb. a.i. (1.6-6.4 fl. oz. product)	Apply in a minimum of 10 gallons/A by ground or a minimum of 2 gallons/A by air. When applying by air, substitute 1-2 quarts of emulsified oil for 1-2 quarts water if	14	
Field Bean Kidney Bean Lima Bean (dry) Navy Bean Pinto Bean Tepary Bean Bean (Vigna) Adzuki Bean Blackeyed Pea Catjang Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Broad Bean (dry) Chickpea Guar Lablab Bean Lentil Pea (Pisum) Field Pea Pigeon Pea	Alfalfa Caterpillar Aphids Armyworms Beet Fall Southern Yellowstriped Beetles Bean Leaf Cucumber Japanese (Adult) Mexican Bean Sap Bugs Plant Bugs Stink Bugs Tarnished Plant Bugs Cloverworm Corn Earworm Corn Rootworm (Adult) Cutworms European Corn Borer Grasshoppers Imported Cabbageworm Leafminers Loopers Pea Leaf Weevil Pea Weevil Saltmarsh Caterpillar Thrips Tobacco Budworm Webworms Western Bean Cutworm Whitefly		desired.		
	Banks Grass Mite Carmine Mite Lygus spp. Twospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)			

BRASSICA

CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Head and Stem Brassica Vegetables including: Broccoli Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli (gai lon, white flowering broccoli) Chinese Cabbage (napa) Chinese Mustard Cabbage (gai choy) Kohlrabi	Aphids Armyworms Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Ground Beetles Imported Cabbageworm Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm Whitefly Wireworm (Adults)	0.033-0.10 lb, a.i. (2.1-6.4 fl. oz. product)	Apply in water in a minimum of 10 gallons spray/A by ground or in a minimum of 2 gallons/A by air. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired when applying by air. For best control thorough coverage is necessary. Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season. Do not make more than 5 applications after bloom. Do not make applications less than 7 days apart.	7
	Banks Grass Mite Carmine Mite Lygus spp. Pacific Spider Mite Twospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)		

CANEBERRIES Including Bingleberries, Blackberries, Dewberries, Loganberries, Lowberries, Marionberries, Olallieberries, Raspberries, Youngberries

PESTS CONTROLLED RATE BIFENTURE EC/ACRE		APPLICATION INSTRUCTIONS	
Leafrollers Orange Tortrix Root Weevils	0.05-0.10 lb. a.i. (3.2-6.4 fl. oz. product)	Apply in water in a minimum of 50 gallons/A by ground or in a minimum of 10 gallons/A by air. For best control thorough coverage of foliage is necessary. Make one pre-bloom application and if necessary one post-bloom application. For Crown Borer apply as a drench either post-harvest (fall) or pre-bloom (spring),	(days)
Raspberry Crown Borer Spider Mites	0.10 lb. a.i. (6.4 fl. oz. product)	using 0.10 lb. a.i./A in at least 200 gallons of water/A. Direct the spray at the crown of the plant. For best results, apply at higher water gallonages (up to 400 gallons/A) or prior to a significant rainfall. Do not apply both pre-bloom foliar and pre-bloom drench applications. Do not apply more than 0.20 lb. a.i. (12.8 fl. oz. of product) per acre per season.	

CANOLA, CRAMBE, RAPESEED

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Aphids Armyworms Cutworms Diamondback Moth Flea Beetle Flea Hopper Grasshopper Loopers Other Lepidopterous Larvae Plant Bug Seedpod Weevil Stink Bugs Thrips Whitefly	0.033-0.04 lb. a.i. (2.1-2.6 fl. oz. product)	Apply in water in a minimum of 10 gallons/A by ground or in a minimum of 2 gallons/A by air. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water it desired when applying by air. For best control thorough coverage is necessary. Do not apply more than 0.08 lb. a.i. (5.12 fl. oz. of product) per acre per season. Do not make applications less than 14 days apart.	35

CHRISTMAS TREES

For use only in Washington and Oregon

PESTS CONTROLLED	RATE Bifenture Ec/Acre	APPLICATION INSTRUCTIONS
Root Weevil Spruce Spider Mite	0.06-0.1 lb. a.i. (3.9-6.4 fl. oz. product)	Apply in water in a minimum of 20 gallons/A by ground, or in a minimum of 5 gallons/A by air. Do not apply more than 3 times in a crop year. Do not apply more than 0.10 lb. a.i. (6.4 fl. oz. of product) per acre per treatment. Do not apply through any type of irrigation system. Do not make applications less than 21 days apart. Although this product is not expected to be phytotoxic to Christmas trees, it is recommended that application be made to a small representative group of plants to ensure that a particular variety is not unusually sensitive.

CILANTRO, CORIANDER

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS				
Aphids Beet Armyworm Cabbage Looper Cutworms Flea Beetles Grasshoppers Leafminers Saltmarsh Caterpillar Spotted Cucumber Beetle Thrips Whitefly	0.033-0.10 lb. a.i. (2.1-6.4 fl. oz. product)	For best control, thorough coverage is necessary. Apply as needed. Apply in water in a minimum of 10 gallons of spray/A by ground or in a minimum of 2 gallons/A by air. Do not make applications less than 7 days apart. Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season.	3			
Twospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)					

CITRUS

Not for this use in California unless accompanied by supplemental labeling.

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)	
Blue Green Citrus Root Weevil (Pachnaeus opalus)	0.25-0.50 lb. a.i. (16-32 fl. oz. product)	Apply by ground in a minimum of 40 gallons of dilute spray per acre. Make uniform application to bare soil beneath the tree from the trunk to the drip line of the tree.	1	
Brown Leaf Notcher (Epicaerus mexicanus) Diaprepes Root Weevil (Diaprepes abbreviatus) Little Leaf Notcher		Use a higher spray volume to insure uniformity of coverage. Pre- and post-application irrigation may also aid in uniform coverage. Bifenture protects tree roots from root weevils by forming a barrier of pesticide through which they must burrow when the neonates fall from the tree after hatching. After application minimize disturbance of the soil beneath the trees to maintain this barrier.		
(Artipus floridanus) Southern Blue Green Citrus Root Weevil (Pachnaeus Litus)		It is important to time applications correctly. Peak emergence of adult Diaprepes Weevil varies by citrus growing region and is also dramatically affected by environmental factors such as soil moisture. Typically, two peaks are observed for Diaprepes, first in spring and then in late summer or early fall. For Southern Blue Green and Blue Green Citrus Weevils and Fuller Rose Beetle, a single emergence		
Asian Cockroach (Blattella asahinae)	0.1-0.25 lb. a.i. (6.4-16 fl. oz. product)	peak in the spring is typical. Brown and Little Leaf Notchers typically have three emergence peaks in spring, summer and fall.		
Fire Ants (Solenopsis spp.)		Since emergence varies seasonally and by location, observation of adults is the most accurate way to forecast timing of applications. Numbers of adults can be estimated by trapping during spring and summer during the active early morning and later afternoon periods. Egg laying occurs for 8-10 weeks following emergence from the soil, and larval invasion of the soil begins 2-3 weeks following adult emergence. It is critical to have the Bifenture EC soil barrier in place before the neonates drop.		
		Use Bifenture EC in conjunction with other tools in an integrated pest management program for citrus Root Weevils. Good cultural practices, biological control of larvae and foliar control of adults are all important. Local university extension personnel can provide the most current information to protect citrus trees.		
		Additional information:		
		Apply to individual citrus resets, when not in solid planted rows, using a hand-gun or shielded sprayer.		
		Note that although peak emergence of Diaprepes occurs in the spring, weather conditions can cause a minor emergence of this pest in the fall.		
		Use the highest rate if the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence in the spring. This will provide the longest residual management of Diaprepes Root Weevil.		
		Use the lower rate if the citrus grove is in an area where weather conditions will promote more than one peak of pest emergence, and make a second application later in the season.		
		Do not apply through irrigation systems.		
	,	Do not allow Bifenture EC to contact fruit or foliage.		
		Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season. Do not apply by air.		

CONIFER SEED ORCHARDS

For use only in the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, and Virginia

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS
Cone Worms Seed Bugs Seed Worms	0.1-0.2 lb. a.i. (6.4-12.8 fl. oz.)	Apply in water in a minimum of 100-500 gallons/A by ground. Apply in water in a minimum of 10 gallons/A or in refined vegetable oil in a minimum of 0.5 gallons/A by air. For best control thorough coverage is necessary.
Seed Worms		Begin application 7 days following peak pollen flight and repeat at 30 day intervals to a maximum of 0.60 lb. a.i./A per season.
		Do not make more than six applications per season, or apply more than 0.60 lb. a.i. 438.4 fl. oz. of product) per acre per season.

COTTON

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellowstriped Armyworm	0.02-0.10 lb. a.i. (1.3-6.4 fl. oz. product) 0.04-0.10 lb. a.i. (2.6-6.4 fl. oz. product)	Apply Bifenture EC in water or refined soybean/cottonseed oil. Apply in water in a minimum of 5 gallons/A by ground or a minimum of 1 gallon/A by air. Substitute 1 quart of emulsified oil for 1 quart water if desired when applying by air. ULV Application: Apply in refined vegetable oil in a minimum of 1 quart/A with aircraft calibrated to give adequate coverage. Boll Weevil: Apply Bifenture EC every 3 to 4 days until control is acceptable. Mites and Aphids: Apply when pests first appear. Repeat as necessary to maintain control. Use the higher rates once a damaging threshold is established. Apply no more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season in all states except California. In California, apply no more than 0.30 lb. a.i. (19.2 fl. oz. of product) per acre per season. No more than 10 synthetic pyrethroid applications (of one product or combination of products, including Ambush®, Ammo®, Asana® XL, Baythroid®, Capture®, Danitol®, Karate®, Mustang®, and Scout X-TRA®) may be made to a cotton crop in one growing season. Do not graze livestock in treated areas or cut treated crops for feed.	14
Beet Armyworm Carmine Spider Mite Lygus spp. Pink Bollworm Twospotted Spider Mite	0.06-0.10 lb. a.i. (3.8-6.4 fl. oz. product)		

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANTING USE)

PESTS CONTROLLED	RATE BIFENTURE EC	APPLICATION INSTRUCTIONS	PHI (days)
Corn Rootworm, Larvae Mexican Northern Southern Western	0.0046 lb. a.i. (0.30 fl. oz. product) per 1,000 linear feet of row	Apply as a 5 to 7 inch T-band at planting over the open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. The table below describes the amount of Bifenture EC needed per acre. Apply in water in a minimum of 3 gallons/A. When using Bifenture EC with fertilizers, check to be sure all components are com-	30
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0.0023-0.0046 lb. a.i. (0.15-0.30 fl. oz. product) per 1,000 linear feet of row	patible. For mixture with water or fertilizer, use the following procedure. Fill the spray tank approximately one-half full with water or liquid fertilizer; add the proper amount of Bifenture EC; then add the rest of the water or fertilizer. Sufficient agitation during mixing and application is required to ensure a uniform mixture. Only apply to soil when there is less than 30% cover of crop residue remaining. Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.	
Wireworm		Do not apply more than 0.10 lb. a.i. (6.4 fl. oz. of product) per acre per season.	

Row spacings	40 in.	38 in.	36 in.	30 in.
Bifenture EC (lb. a.i. per acre)	0.060	0.064	0.069	0.080
Bifenture EC (formulated product, ounces per acre)	3.9	4.1	4.4	5.12

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED

Pre-Plant Incorporated (PPI) and Pre-Emergence (PRE)

PESTS CONTROLLED	RATE Bifenture ec/acre	APPLICATION INSTRUCTIONS
Armyworm spp. Black Cutworm Seedcorn Maggot Stalkborer White Grub Wireworm	0.047-0.062 lb. a.i./A (3-4 fl. oz./A product) Pre-Plant Incorporated (PPI)	Incorporate Bifenture EC close to the expected depth of the seed, but no deeper than 3 inches. PPI: Use the 3-4 oz./A rate only. Apply alone or with PPI herbicides as a tank mix. PRE: Use the 2.56 oz./A rate when tankmixing and applying with PRE herbicides.
Armyworm spp. Black Cutworm Stalkborer	0.040 lb. a.i./A (2.56 fl. oz./A product) Pre-emergence (PRE)	

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE)

		(FULIAN USE)	
PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm (Adults) Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle (Adults) Leafhoppers Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stink Bugs Tarnished Plant Bug Thrips True Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm		Apply in water in a minimum of 10 gallons/A by ground or in a minimum of 2-5 gallons/A by air. For heavy infestations, use 5 gallons of finished spray per acre by aircraft. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control thorough coverage is necessary. Ear-Attacking Pests: Apply Bifenture EC just before silking. Southwestern Corn Borer, European Corn Borer: Apply at or shortly before egg hatch. Other Insect Pests: Apply when insects first appear. Repeat as needed. Banks Grass Mites: Apply when colonies first form before leaf damage or discoloration and prior to movement above the bottom third of the plant. Twospotted Spider Mite and Carmine Mite: Apply when colonies first form before leaf damage or discoloration and before wide-spread mite movement throughout the canopy. Use the higher rates if heavier insect pressure is noted and corn is under heat or drought stress. Tank mixtures with dimethoate at 0.50 lb. a.i. per acre are effective under these conditions. Mite Control in Texas, New Mexico, Oklahoma, and Arizona: Apply in water in a minimum of 10 gallons/A ground or in a minimum of 5 gallons/A by air. Repeat applications as necessary to maintain control, but do not apply more than 0.30 lb. a.i. (19.2 fl. oz. of product) per acre per season including PRE & PPI, at plant plus foliar applications. Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application. Do not apply by ultra low volume (ULV) application on corn. If heavy rainfall is imminent, do not make aerial or ground applications to corn.	30
Carmine Mite Twospotted Spider Mite	(5.12-6.4 fl. oz. product)		

SWEET CORN SWEET CORN GROWN FOR SEED

(AT PLANTING USE)

PESTS CONTROLLED	RATE Bifenture ec	APPLICATION INSTRUCTIONS	PHI (days)
Corn Rootworm, Larvae Mexican Northern Southern Western	0.0046 lb. a.i. (0.30 fl. oz. product) per 1,000 linear feet of row	3 gallons of finished spray per acre. When using Bifenthrin EC with fertilizers, check to be sure all components are com-	30
Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species	0.0023-0.0046 lb. a.i. (0.15-0.30 fl. oz. product) per 1,000 linear feet of row	patible. For mixture with water or fertilizer, use the following procedure. Fill the spray tank approximately one-half full with water or liquid fertilizer; add the proper amount of Bifenture EC; then add the rest of the water or fertilizer. Sufficient agitation during mixing and application is required to ensure a uniform mixture. Only apply to soil where there is less than 30% cover of crop residue remaining. Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.	
Wireworm		Do not apply more than 0.10 lb. a.i. (6.4 fl. oz. of product) per acre per season.	

Row spacings	40 in.	38 in.	20:-	
D' 1 50 (II	TO III.	36 III.	36 in.	30 in.
Bifenture EC (lb. a.i. per acre)	0.060	0.064	0.069	0.080
Bifenture EC (formulated product, ounces per acre)	3.9	4.1	4.4	5.12

SWEET CORN SWEET CORN GROWN FOR SEED

(FOLIAR USE)

PESTS CONTROLLED	BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Aphids Army Cutworm Aster Leafhopper Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm (Adults) Corn Silkfly Cucumber Beetle (Adults) Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle (Adults) Leafhoppers Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stink Bugs Tarnished Plant Bug Thrips True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm		Apply in water in a minimum of 10 gallons/A by ground or in a minimum of 2 gallons/A by air. For heavy infestations by aircraft, use 5 gallons of finished spray per acre. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control, thorough coverage is necessary. Ear-Attacking Pests: Apply Bifenture EC just before silking. Southwestern Corn Borer, European Corn Borer: Apply twice, with the first application at or shortly before egg hatch. Other Insect Pests: Apply when insects first appear. Repeat as needed. Mite Control: Apply when colonies first form before leaf damage or discoloration and prior to widespread movement throughout the canopy. For Banks Grass Mite, apply prior to movement above the bottom third of the plant. Use the higher rates if heavier insect pressure is noted and corn is under heat or drought stress. Repeat applications as necessary, but do not apply more than 0.20 lb. a.i. (12.8 fl. oz. of product) per acre per season. Do not graze livestock in treated areas or cut treated crops for feed within 1 day of the last application. Do not apply by ultra low volume (ULV) on corn. If heavy rainfall is imminent, do not make aerial or ground applications to corn.	1
Banks Grass Mite Carmine Mite Pacific Spider Mite Twospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)		

CUCURBITS

			DITO	
CROP	PESTS CONTROLLED	RATE Bifenture ec/acre	APPLICATION INSTRUCTIONS	PHI (days)
Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyloan, cucuzza), (Luffa spp.) (includes hechima, Chinese okra), (Momordica spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) Muskmelon (hybrids and/or cultivars of Cucumis melo) (includes true cantaloupe, Cantaloup	Aphids Armyworms Cabbage Looper Corn Earworm Cucumber Beetles Cutworm Grasshopper Leafhoppers Melonworm Pickleworm Plant Bug Rindworm Squash Bugs Squash Vine Borer Stink Bugs Tobacco Budworm Banks Grass Mite Carmine Mite Lygus spp. Twospotted Spider Mite Whitefly		Apply in water in a minimum of 20 gallons/A by ground or	PHI (days)
Natermelon (includes hybrids and/or varieties of Citrullis spp.)				

FRUITING VEGETABLES

Eggplant, bell and non-bell pepper, pepino, groundcherry, tomato, tomatillo

Eggplant Pepper (bell and non-bell)	Armyworms (including:			
Pepino Groundcherry	(bell and non-bell) Beet Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm) Cabbage Looper Colorado Potato Beetle Corn Earworm Corn Earworm Cabbage Looper Colorado Potato Beetle Colora	application is made by air, 1-2 quarts emulsified oil may replace 1-2 quarts of water in the finished spray. For best control thorough coverage is necessary. Do not make applications less than 7 days apart. Do not apply more than 0.20 lb. a.i. (12.8 ft. oz. of	(days	
Ba Bri Ca Lyy Pa	Banks Grass Mite Broad Mite Carmine Mite Lygus spp. Pacific Spider Mite wospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)		
Dispersion of the property of	Aphids Armyworms (including: Beet Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm) Yellowstriped Armyworm) Yellowstriped Armyworm) Yellowstriped Armyworm) Yellowstriped Armyworm) Yellowstriped Armyworm Yellowstriped Armyworm Yellowstriped Armyworm Yellowstriped Armyworm Yellowstriped Armyworm Yellowstriped Armyworm Yellowstriped Yellowstripe	0.033-0.08 lb. a.i. (2.1-5.2 fl. oz. product)	Apply in at least 3 gallons finished spray/A by air or at least 15 gallons/A by ground. For best control thorough coverage is necessary. Do not make applications less than 7 days apart. Do not make more than 4 applications per season.	1

GRAPES

PESTS CONTROLLED	RATE Bifenture ec/acre	APPLICATION INSTRUCTIONS	PHI
Cutworms Eastern Grape Lady Beetle (Scymnus) Grape Berry Moth Japanese Beetle (Adult) Leafhopper Variegated Leafhopper Western Grape Leafhopper	0.05-0.10 lb. a.i. (3.2-6.4 fl. oz. product)	Apply in a minimum of 25 gallons/A by ground or in a minimum of 10 gallons/A by air. Substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control thorough coverage is necessary. Use the higher rate when insect pressure is moderate to severe. Do not apply more than 0.10 lb. a.i. (6.4 fl. oz. of product) per acre per season.	(days)
Black Vine Weevil Glassywinged Sharpshooter Twospotted Spider Mite	0.10 lb. a.i. (6.4 fl. oz. product)		

HOPS

PESTS CONTROLLED	RATE Bifenture ec/acre	APPLICATION INSTRUCTIONS	PHI (days)
Aphids Armyworms Cutworms Leafrollers Loopers	0.06-0.1 lb. a.i. (3.8-6.4 fl. oz. product)	Do not apply more than 0.10 lb. a.i. (6.4 fl. oz. of product) per acre per application. Do not apply more than 0.30 lb. a.i. (19.2 fl. oz. of product) per acre per season. Do not make applications less than 21 days apart. By ground: Full coverage is necessary for best results. For early season, use 100-150 gallons of spray per acre. For late season, use 200-250 gallons of spray	14
Root Weevils	0.05-0.1 lb. a.i. (3.2-6.4 fl. oz. product)	Root Weevil: Direct the spray to the base of the plant. Spray 3 feet up the vine and the soil surface 1.5 to 2 feet around the plant.	
Twospotted Spider Mite	(6.4 fl. oz. product)	Twospotted Spider Mites, for late season control: Apply at least 6.4 fl. oz. (0.10 lb. a.i.) per application in a minimum of 10 gallons per acre by air. Do not apply by ultra low volume (ULV) application to hops.	

LEAFY BRASSICAS Crop Subgroup 5-B

CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Broccoli raab Chinese cabbage (bok choy) Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens	Aphids Armyworms Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Grasshoppers Ground Beetles Imported Cabbageworm Japanese Beetles (Adults) Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm Whitefly Wireworm (Adults) Banks Grass Mite Carmine Mite Lygus spp. Pacific Spider Mite Twospotted Spider Mite	0.033-0.10 lb. a.i. (2.1-6.4 fl. oz. product) 0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)	Apply in water in a minimum of 10 gallons/A by ground or in a minimum of 2 gallons/A by air. For best control thorough coverage of foliage is necessary. When applied by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Do not make applications less than 7 days apart. Do not apply more than 0.40 lb. a.i. (25.6 fl. oz. of product) per acre per season.	7

LETTUCE, HEAD

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Aphids Armyworms Cabbage Maggot Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Grasshoppers Imported Cabbageworm Leafhoppers Loopers Salt Marsh Caterpillar Stink Bug spp. Thrips Tobacco Budworm Whitefly	0.033-0.10 lb. a.i. (2.1-6.4 fl. oz. product)	Apply in water in a minimum of 15 gallons/A by ground or in 5 gallons/A by air. For air application, substitute 1-2 quarts of emulsified oil for 1-2 quarts water if desired. For best control thorough coverage is necessary. Do not make applications less than 7 days apart. Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season.	7
Carmine Mite Lygus spp. Twospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)		

MAYHAW Not for this use in California unless accompanied by supplemental labeling.

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Plum Curculio	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)	Apply in at least 28 gallons per acre. Do not apply more than once every 7 days. Do not apply more than 0.20 lb. a.i. (12.8 fl. oz. of product) per acre per season.	30

OKRA

PESTS CONTROLLED	RATE Bifenture Ec/Acre	APPLICATION INSTRUCTIONS	PHI (days)
Aphids Armyworms Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Japanese Beetles (Adult) Leafminers Loopers Stink Bugs Thrips Whitefly	0.033-0.10 lb. a.i. (2.1-6.4 fl. oz. product)	For best control, thorough coverage is necessary. Apply as needed. Apply in water in a minimum of 10 gallons of spray/A by ground or in a minimum of 2 gallons/A by air. Do not make applications less than 7 days apart. Do not apply more than 0.20 lb. a.i. (12.8 fl. oz. of product) per acre per seaso11.	7
Broad Mite Carmine Mite Lygus spp. Twospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)		

PEANUT

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Beet Armyworm Corn Earworm Cutworm spp. Fall Armyworm Grasshoppers Green Cloverworm Leafhoppers Lesser Cornstalk Borer Loopers Rednecked Peanut Worm Southern Armyworm Southern Corn Rootworm Stink Bugs Threecornered Alfalfa Hopper Velvetbean Caterpillar Yellowstriped Armyworm	0.033-0.10 lb. a.i. (2.1-6.4 fl. oz. product)	Apply in at least 10 gallons of water. Do not apply more than once every 14 days. Do not feed green immature plants and peanut hay to livestock. Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season.	14
Aphids Spider Mites Thrips Whitefly	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)		

PEARS

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Aphids Codling Moth Cutworms Green Fruitworm Leafhoppers Leafminers Leafrollers Lygus spp. Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs Tarnished Plant Bugs	0.04-0.2 lb. a.i. (2.6-12.8 fl. oz. product)	By ground: Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray. For best control thorough coverage is necessary. By air: Apply in a minimum of 10 gallons per acre. Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season with no more than 0.45 lb. a.i. (28.8 fl. oz. of product) per acre applied after petal fall. Apply as necessary to maintain control and repeat applications at 30 day intervals. Do not graze livestock in treated orchards or cut treated cover crops for feed.	14
Twospotted Spider Mite Yellow Mite	0.06-0.2 lb. a.i. (3.8-12.8 fl. oz. product)		
European Red Mite	0.08-0.2 lb. a.i. (5.12-12.8 fl. oz. product)		

ROOT CROPS (except Sugarbeets)

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CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days
Edible burdock Carrot Celeriac Chervil Chicory Ginseng Horseradish Parsley Parsnip Radish Oriental radish Rutabaga Salsify Black salsify Spanish salsify Skirret Turnip	Aphids Beet Armyworm Celery Leaf Tier Corn Earworm Cross-striped Cabbageworm Cutworms Diamondback Moth European Corn Borer Fall Armyworm Fire Ants Flea Beetles Green Cloverworm Hornworms Imported Cabbageworm Loopers Southern Armyworm Spider Mites Tobacco Budworm Velvetbean Caterpillar Whitefly Yellowstriped Armyworm	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product	Apply in at least 25 gallons per acre by ground. Do not apply more than once every 7 days. Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season.	21
Garden Beets	Aphids Fire Ants Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)	Make foliar applications in a minimum of 25 gallons/A. Do not apply more than 0.40 lb. a.i. (25.6 fl. oz. of product) per acre per season. Do not apply more often than every 7 days.	1

SOYBEAN

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PH((days)
Alfalfa Caterpillar Aphids Aster Leafhopper Bean Leaf Beetle Beet Armyworm* Cloverworm Corn Earworm Corn Rootworm (Adult Cucumber Beetles Cutworms European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Imported Cabbageworm Japanese Beetle (Adult) Pea Leaf Weevil Plant Bug Saltmarsh Caterpillar Sap Beetle Southern Armyworm Stink Bugs Tarnished Plant Bug Thrips Tobacco Budworm* Webworms Western Bean Cutworm Whitefly Yellowstriped Armyworm Soybean Aphid Lygus spp. Whitefly Twospotted Spider Mite		Make foliar applications in at least 10 gallons per acre. Do not apply more than once every 30 days. Do not apply more than 0.30 lb. a.i. (19.2 fl. oz. of product) per acre per season. *Because pyrethroid resistance is common for Beet Armyworm and Tobacco Budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.	18

SPINACH

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Armyworms Colorado Potato Beetle Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Tomato Hornworm Tomato Pinworm Whitefly	0.033-0.10 lb. a.i. (2.1-6.4 fl. oz. product)	Apply in water at 10-50 gallons/A by ground or 5-50 gallons/A by air. Whiteflies: Make up to 4 foliar treatments of Bifenture EC by ground or air at ratec of up to 0.4 pint (0.10 lb. active) per acre. Repeat applications at 7 day intervals. Fire Ants: Make up to 4 applications of Bifenture EC to the soil at planting or as a foliar treatment by ground or air at rates of up to 0.4 pint (0.10 lb. active) per acre. Repeat application at 7 day intervals. Do not make applications less than 7 days apart. Do not apply more than 0.40 lb. a.i. (25.6 fl. oz. of product) per acre per season.	40
Banks Grass Mite Broad Mite Carmine Mite Fire Ants Lygus spp. Pacific Spider Mite Iwospotted Spider Mite	0.08-0.10 lb. a.i. (5.12-6.4 fl. oz. product)		

TOBACCO

PESTS CONTROLLED	RATE Bifenture ec/acre	APPLICATION INSTRUCTIONS
Armyworm spp. Cutworm spp. Mole Crickets Stalkborers Tobacco Flea Beetle (Larvae) White Grubs Wireworms	0.0625-0.10 lb. a.i. (4.0-6.4 fl. oz. product)	Pre-transplant soil application: Apply specified rate in a minimum of 10 gallons/A. To control below-ground pests, use equipment which will incorporate the application into the top 4" of soil. At-transplant water treatment application: Apply specified rate in a water treatment volume of 10-200 gallons/A.
Aphid spp. Armyworm spp. Chinch Bugs Cucumber Beetles Cutworm spp. Flea Beetle (Adults) Grasshoppers Green Bugs Japanese Beetles Saltmarsh Caterpillar Stink Bugs Tarnished Plant Bugs Thrips Tobacco Budworm* Tobacco Hornworm Whiteflies	0.04-0.10 lb. a.i. (2.56-6.4 fl. oz. product)	Foliar application: Apply specified rate in a minimum of 10 gallons/A up to and including layby. Do not make more than 2 foliar applications per season. May be tank mixed with other herbicides registered for tobacco use. *See Resistance section on this label for more information.
Lygus spp. Spider Mites	0.1 lb. a.i. (6.4 fl. oz. product)	

Do not apply more than 0.20 lb. a.i. (12.8 fl. oz. of product) per acre per season.

TREE NUT CROPS

Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Pistachio, Walnut (black and English)

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Black Pecan Aphid Codling Moth Filbert Worm Hickory Shuckworm Leaffooted Bugs Navel Orangeworm Oblique Banded Leafroller Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Plant Bugs Stink Bugs Walnut Aphid Yellow Pecan Aphid	0.05-0.20 lb. a.i. (3.2-12.8 fl. oz. product)	Ground Application: Apply as a dilute (minimum of 200 gallons per acre) or concentrate (minimum of 50 gallons per acre) spray in sufficient water to provide thorough coverage. Air Application: Apply in a minimum of 10 gallons of finished spray per acre. Minimum Spray Intervals: Apply Bifenture EC as needed to maintain control, but do not apply at intervals sooner than 15 days. Do not apply more than 0.20 lb. a.i. (12.8 fl. oz. of product) per acre per application. Do not apply more than 0.50 lb. a.i. (32 fl. oz. of product) per acre per season. Do not graze livestock in treated orchards or cut treated cover crops for feed.	Pecans: 21 Others: 7
European Red Mite Spider Mites	0.08-0.20 lb. a.i. (5.1-12.8 fl. oz. product)		
Fire Ants Walnut Husk Fly	0.1-0.2 lb. a.i. (6.4-12.8 fl. oz. product)		

TUBEROUS AND CORM VEGETABLES (Crop Subgroup 1C)

CROP	PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	APPLICATION INSTRUCTIONS	PHI (days)
Arracacha Arrowroot Artichoke (Chinese and Jerusalem) Cassava (bitter and sweet) Chayote (root) Chufa Dasheen Edible Canna Ginger Leren Potato Gweet Potato Tanier True Yam Turmeric Yam Bean	Banded Cucumber Beetle Black Flea Beetle Corn Wireworm Cucumber Beetle Japanese Beetle Grubs June Beetle Rootworms Southern Potato Wireworm Sugarcane Beetle Sweetpotato Flea Beetle Sweetpotato Weevil Tobacco Wireworm Whitefringed Beetle White Grub	At-Plant 0.30 lb. a.i. (19.2 fl. oz. product) At Cultivation or Lay-By 0.05-0.15 lb. a.i. (3.2-9.6 fl. oz. product) Foliar 0.033-0.10 lb. a.i. (2.1-6.4 fl. oz. product)	furrow.	21

SOD FARMS

Not for use in California unless accompanied by supplemental labeling.

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or

In New York State, DO make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

PESTS CONTROLLED	RATE BIFENTURE EC/ACRE	RATE Bifenture ec fl. oz./1,000 sq. ft.
Armyworms¹ Cutworms¹ Sod Webworm¹	0.03-0.05 lb. a.i. (2.2-3.5 fl. oz. product)	0.05-0.08 fl. oz. product
Annual Bluegrass Weevil (Hyperodes) (Adult) ² Banks Grass Mite ⁶ Billbugs (Adult) ³ Black Turfgrass Ataenius (Adult) ⁴ Crickets Earwigs Fleas (Adult) Grasshoppers Mealybugs Mites ⁶	0.05-0.11 lb. a.i. (3.5-7.0 fl. oz. product)	0.08-0.16 fl. oz. product
Ants Chinch Bugs ⁵ Fleas (Larvae) ⁷ Imported Fire Ants ⁸ Japanese Beetle (Adult) Mole Cricket (Adult) ⁹ Mole Cricket (Nymph) ¹⁰ Ticks ¹¹	0.11-0.21 lb. a.i. (7.0-14.0 fl. oz. product)	0.16-0.32 fl. oz. product

Armyworms, Cutworms, and Sod Webworms: For best control, delay watering (irrigation) or mowing for 24 hours after application. Higher application rates (up to 0.32 fl. oz. per 1,000 sq. ft.) may be required if grass is being maintained at a mowing height of greater than 1" in periods of high pest pressure.

Annual Bluegrass Weevil (Hyperodes) Adults: Time applications to control adult weevils as they leave their overwintering sites and move into grass. Generally, this movement begins when Forsythia is in full bloom and finishes when flowering dogwood is in full bloom. Your State Cooperative Extension Services can give more specific information regarding the timing of applications.

Billbug Adults: Apply when adult billbugs are first seen during April and May. Consult degree day models to optimize application timing, and consult your State Cooperative Extension Service for information specific to your region. In temperate regions, apply in spring to also provide control of over-wintered chinch bugs.

Black Turfgrass Ataenius Adults: Apply during May and July to control the first and second generations, respectively. Time the May application to coincide with the full bloom stage of Vanhoutte spiraea (Spiraea vanhoutei) and horse chestnut (Aesculus hippocastanum). Time the July application to coincide with the blooming of Rose of Sharon (Hibiscus syriacus).

Chinch Bugs: Irrigate the grass area before treatment to optimize penetration of the product to the base of grass plants and the thatch layer, where chinch bugs are found. If the thatch layer is excessive or if a relatively long mowing height is being maintained, use higher volume applications. Chinch Bugs are difficult to control in grasses and the higher labeled application rates may be necessary to control populations containing both nymphs and adults during the middle of the summer.

Mites: For best control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application timed five to seven days after the first may be necessary for acceptable control.

Flea Larvae: These pests develop in the soil of shaded areas accessible to pets and other animals. When treating these areas, use a higher

Flea Larvae: These pests develop in the soil of shaded areas accessible to pets and other animals. When treating these areas, use a nigner application volume to ensure the insecticide penetrates into the soil. Note: if the lawn area is being treated with this product at 0.10 fl. oz./1,000 sq. ft. for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-rold. Imported Fire Ants: For best control, combine broadcast applications (to control foraging workers and newly mated fly-in queens) with mound drenches (to control existing colonies). If the soil is not moist, irrigate before application or use a high volume application. For broadcast treatments, use 0.32 fl. oz./1,000 sq. ft. Treat mounds by diluting 0.05 fl. oz. Bifenture EC per gallon of water, and apply 1 to 2 gallons of finished spray per mound. Treat the mounds with enough force to break the apex and allow the solution to flow into the ant tunnels. Also treat a four-foot diameter circle around the mound. For best results, apply in cool weather (65 - 80°F) or in early morning or late evening hours. foot diameter circle around the mound. For best results, apply in cool weather (65 - 80°F) or in early morning or late evening hours.

Mole Cricket Adults: Adult mole crickets are difficult to control because preferred grass areas are continuously invaded during the early spring. Apply as late in the day as possible, and water in with up to 0.5 inches of water immediately following treatment. If the soil is not noist, irrigate before application to bring the crickets closer to the soil surface and maximize exposure to the insecticide. In grass areas that receive pressure

from adult mole crickets, treat at peak egg hatch to ensure control of subsequent nymph populations (see footnote 10).

Mole Cricket Nymphs: In grass areas that receive intense pressure from adult mole crickets, treat immediately before peak egg hatch. Best control is achieved at that time because young nymphs are more susceptible to insecticides and they are located near the soil surface. To control larger, more damaging nymphs later in the year a higher application rate and more frequent applications may be necessary. Apply as late in

trol larger, more damaging nymphs later in the year a higher application rate and more trequent applications may be necessary. Apply as late in the day as possible and water in with up to 0.5 inches of water immediately following treatment. If the soil is not moist, irrigate before application to bring the crickets closer to the soil surface and maximize exposure to the insecticide.

Icks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever): Do not make spot applications, but treat the entire area where exposure to ticks may occur. When treating areas with dense ground cover or heavy leaf litter, use higher spray volumes. Note that ticks may be reintroduced from surrounding areas or on host animals and retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Limit repeat application to no more than once per seven days, and only if there are signs of renewed activity. Deer Ticks (Ivodes sp. 1: This past has a complex life-cycle that ranges over a two-year period and involves four life stages. Apply in the activity. <u>Deer Ticks</u> (Ixodes sp.): This pest has a complex life-cycle that ranges over a two-year period and involves four life stages. Apply in the late fall and/or early spring to control adult ticks (usually located on brush or grass above the soil surface), and in mid to late sprig to control larvae and nymphs (found in the soil and leaf litter). <u>American Dog Ticks</u>: These ticks congregate along paths or roadways where humans are likely to be encountered. Apply as necessary from mid-spring to early fall to control larvae, nymphs, and adults.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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Pages 105-109 - *Confidential Statements of Formula may be entitled to confidential treatment*